JVC

SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS
MD

AV-32WFX1EUG / AV-28WFX1EUG
AV-32WFX1EUS / AV-28WFX1EUS

Supplementary

Since some details of the AV-32WFX1EUG / AV-32WFX1EUS / AV-28WFX1EUG / AV-28WFX1EUS service manual (No.51700 Mar. 2000) were changed, we are informing you of these changes and of the new descriptions.

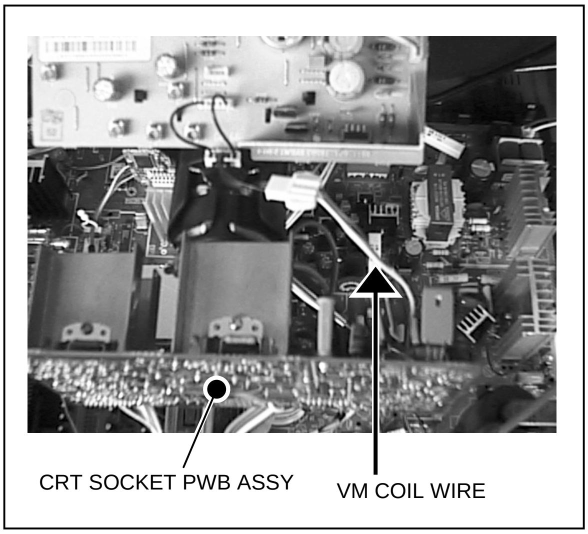
1. OUTLINE OF CHANGE

To improve CRT performance, CRT manufacturer has changed location of VM coil wire connector on the CRT neck.
When changing CRT from old to new type, it is necessary to add extension cable CHHB03-100R-SA, between CRT SKT PCB and new VM coil connector.
When ordering replacement CRT, Please order CHHB03-100R-SA at same time.

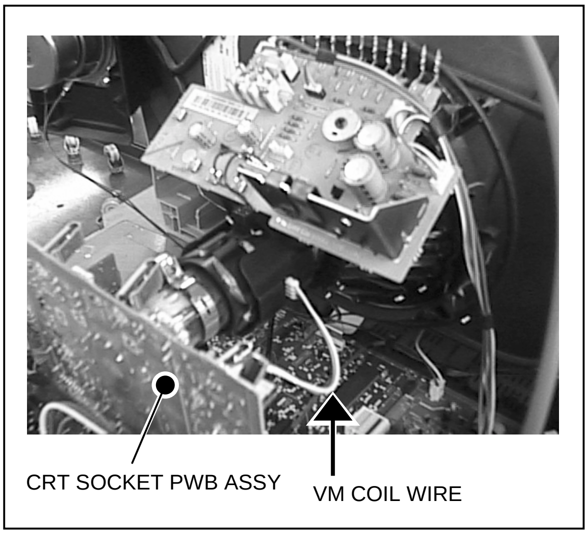
2.HOW TO INDENTIFY MODEL（CRT：W66ERF031X044 [28inch] / W76ERF031X044 [32inch]）

Old type: Has a short VM wire, coming from the CRT VM PCB/Coil Assy for connecting to CRT PCB VM coil wire.

New type: VM coil wire is connected directly into the right hand side of CRT neck.



[Fig.1]



[Fig.2]

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No.51700E
Feb. 2001

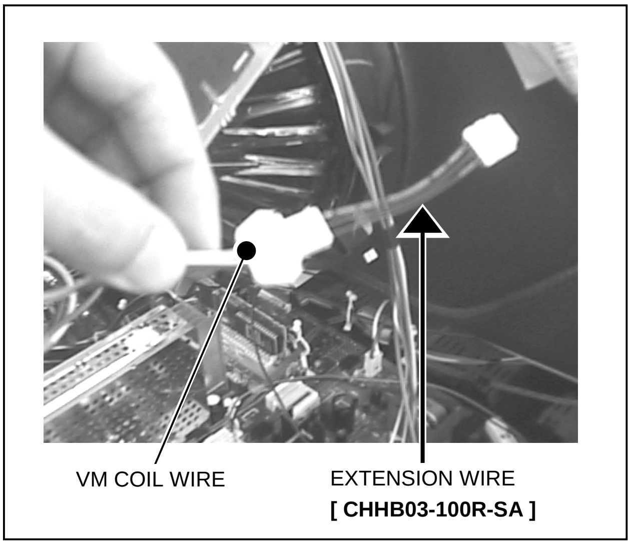
3. LIST OF NEW TYPE CRT USING LONGER VM COIL WIRE (No need to add additional extension wire)

All sets listed before the serial numbers below require additional extension wire.

Model name	Start serial number (New long VM wire)
AV-32WFX1EUG	**155∗1321** Onwards
AV-32WFX1EUS	**155∗1421** Onwards
AV-28WFX1EUG	**145∗0906** Onwards
AV-28WFX1EUS	**145∗9026** Onwards

4. METHOD FOR CHANGING, FROM OLD TO NEW CRT TYPE

① Order CHHB03-100R-SA, at the same time as CRT.
② Attach one end of CHHB03-100R-SA, to VM coil Wire. (See Fig 3)
③ Insert opposite end of CHHB03-100R-SA wire, into CRT's VM coil wire connection. (See Fig 2)



[Fig.3]

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Printed in Japan
VP 0102
MS

JVC

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BASIC CHASSIS
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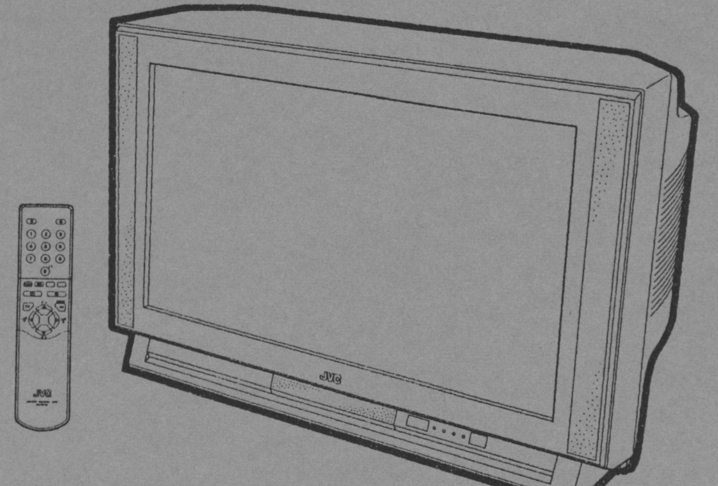

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No.51700
Mar. 2000

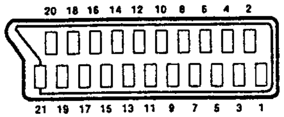
SPECIFICATIONS

Item		Content	
		AV-32WFX1EUG AV-32WFX1EUS	AV-28WFX1EUG AV-28WFX1EUS
Dimensions (W × H × D)		855mm × 550mm × 568mm	780mm × 509mm × 499mm
Mass		57.0kg	41.0kg
TV RF System		CCIR (B/G, I, D/K, L)	←
Colour System		PAL / SECAM / NTSC (Only EXT mode)	
Stereo System		A2 / (B/G, D/K) , NICAM (B/G, I, D/K, L)	
Teletext System		Fastext(United Kingdom system) / TOP (German system) / WST(Standard system)	
Receiving Frequency	**VHF** **UHF** **French CATV**	47MHz～ 470MHz 470MHz～862MHz 116MHz～172MHz / 220MHz～469MHz	←
Intermediate Frequency	**VIF Carrier** **SIF Carrier**	38.9MHz(B/G, D/K, I, L) / 34.10MHz(L') 33.4MHz(5.5MHz : B/G) / 32.9MHz(6.0MHz : I) / 32.4MHz(6.5MHz : L, D/K) / 40.6MHz(6.5MHz : L')	←
Colour Sub Carrier	**PAL** **SECAM** **NTSC**	4.43MHz 4.40625MHz / 4.25MHz 3.58MHz / 4.43MHz	←
Power Input		AC 220V～240V , 50Hz	←
Power Consumption		195W(Max), 145W(Avg) / 145W/h (ITALY)	195W(Max), 145W(Avg) / 145W/h (ITALY)
Picture Tube		Visible size : 76cm, Measured diagonally	Visible size : 66cm, Measured diagonally
High Voltage		31.5kV $^{+1\text{kV}}_{-1.5\text{kV}}$ (at zero beam current)	30.5kV $^{+1\text{kV}}_{-1.5\text{kV}}$ (at zero beam current)
Speaker		φ10 cm round × 2	16cm × 4cm oval × 2
Audio Output		7.5W+7.5W	7.5W+7.5W
EXT-1/EXT-2/EXT-3 (Input / Output)		21-pin Euro connector (SCART socket)	←
EXT4 (Input)	**Video**	1Vp-p 75Ω (RCA pin jack)	←
	Audio(L/R)	500mVrms(-4dBs), High Impedance(RCA pin jack)	
	S-VIDEO	Y : 1Vp-p Positive (negative sync provided, when terminated with 75Ω) C : 0.286Vp-p (burst signal, when terminated with 75Ω)	
AUDIO OUT	**Variable**	0-1 Vrms, low impedance Front L/R output(RCA pin jack)	
Aerial Input		75Ω unbalanced, Coaxial	←
Headphone jack		Stereo mini jack (φ3.5mm)	
Remote Control Unit		RM-C50 (AAA/R03 dry battery × 2	←

Design & specifications are subject to change without notice.

■21-pin Euro connector (SCART socket) : EXT-1 / EXT-2 / EXT-3

[PIN ASSINGMENT]



(P-P= Peak to Peak, S-W= Sync tip to white peak, B-W= Blanking to white peak)

No.	Signal Designation	Matching Value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
2	AUDIO R input	500mVrms(Nominal), High impedance	○	○	○
3	AUDIO L output	500mVrms(Nominal), Low impedance	○ (TV OUT)	○ (LINE OUT)	NC
4	AUDIO GND		○	○	○
5	GND (B)		○	○	○
6	AUDIO L input	500mVrms(Nominal), High impedance	○	○	○
7	B input	700mV$_{B\text{-}W}$, 75Ω	○	NC	NC
8	FUNCTON SW (SLOW SW)	Low : 0-3V, High : 8-12V, High impedance	○	○	○
9	GND (G)		○	○	○
10	SCL3		NC	○ (T-V LINK)	NC
11	G input	700mV$_{B\text{-}W}$, 75Ω	○	NC	NC
12	SDA3		NC	○	NC
13	GND (R)		○	○	○
14	GND (Y_S)		○	NC	NC
15	R / C input	R : 700mV$_{B\text{-}W}$, 75Ω C : 300mV$_{P\text{-}P}$, 75Ω	○ (only R)	○ (only C)	○ (only C)
16	Ys input	Low : 0 - 0.4, High : 1 - 3V, 75Ω	○	NC	NC
17	GND(VIDEO output)		○	○	○
18	GND(VIDEO input)		○	○	○
19	VIDEO output	1V$_{P\text{-}P}$(Negative going sync), 75Ω	○ (TV)	○ (LINE OUT)	NC
20	VIDEO / Y input	1V$_{P\text{-}P}$(Negative going sync), 75Ω	○	○	○
21	COMMON GND		○	○	○

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.

3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

4. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⊥) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.

5. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).

6. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.

7. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.

8. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

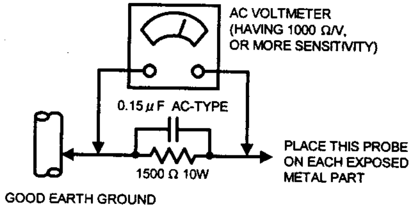
9. **Isolation Check**
   (Safety for Electrical Shock Hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

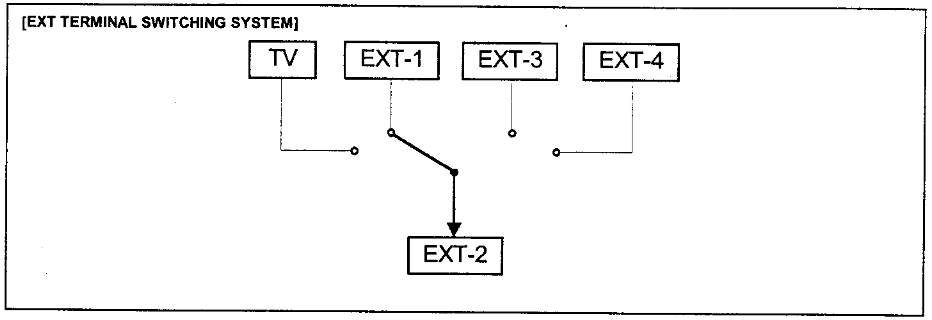
- **Alternate Check Method**

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).

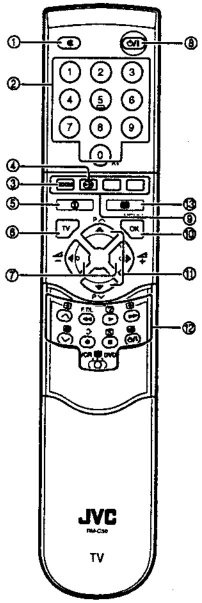


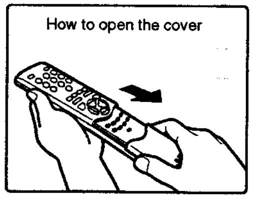
FEATURES

- By preference, users can select the picture size from REGULAR, PANORAMIC, 14:9 ZOOM, 16:9 ZOOM, 16:9 ZOOM SUBTITLE, FULL modes. When the TV unit received WSS picture signal, the picture can be changed to 16:9 mode automatically.
- The TELETEXT SYSTEM has a built-in Fastext, TOP and WST system.
- Because this TV unit corresponds to multiplex broadcast, users can enjoy music programs and sporting events with live realism. In addition, BILINGUAL programs can be heard in their original language.
- In accordance with the brightness in a room, the brightness and/or contrast of the picture can be adjusted automatically to make the optimum picture which is easy on the eye.
- Users can make VCR dubbing of picture and sound by controlling the AV selector to select an optional source at the EXT-2 output shown in figure.
- Built-in T-V LINK.



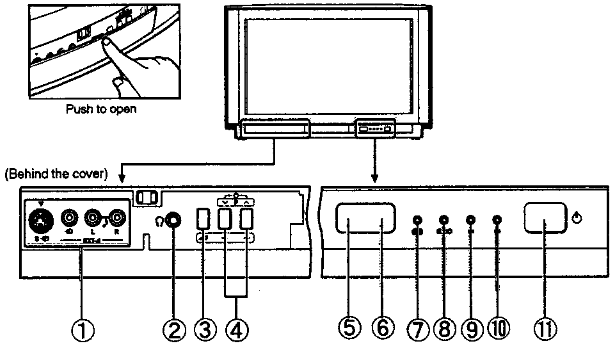
FUNCTIONS(I)




How to open the cover

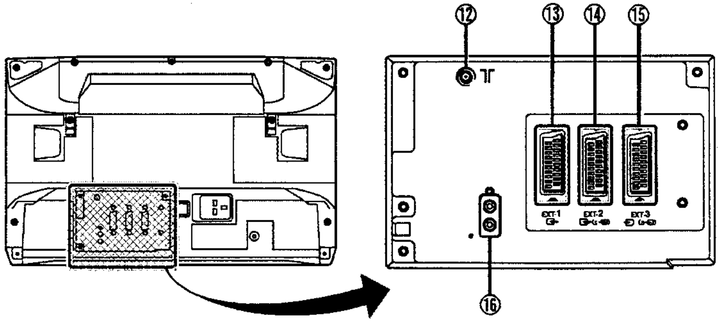
①Muting key
②Number key
③Zoom key
④3D key
⑤Information key
⑥TV key
⑦Volume -/+ key (Function)
⑧Standby key
⑨Colour buttons key
⑩Ok / Menu key
⑪▲/▼ key (Function)
⑫TEXT/VCR/DVD controls key
⑬TEXT key

FUNCTIONS(Ⅱ)



⑥ EXT-4 terminals
⑦ Headphone jack
⑧ Volume
⑨ Program bottoms
⑩ Remote control sensor
⑪ ECO sensor

① Hyper sound lamp
② ECO lamp
③ Sleep timer lamp
④ Power lamp
⑤ Main power button



⑫Aerial socket
⑬EXT-1 Terminal
⑭EXT-2 Terminal
⑮EXT-3 Terminal
⑯AUDIO out

MAIN DIFFERENCE PARTS LIST

⚠	Model Name Part Name	AV-32WFX1EUG	AV-32WFX1EUS	AV-28WFX1EUG	AV-28WFX1EUS
	MAIN PWB	SMD-1006A-U2	←	SMD-1007A-U2	←
	POWER & DEF PWB	SMD-2006A-U2	←	SMD-2007A-U2	←
	100Hz PWB	SMD0Z005A-U2	←	SMD0Z006A-U2	←
	FRONT CONTROL PWB	SMD-8005A-U2	←	SMD-8006A-U2	←
⚠	FRONT CABINET ASSY	LC10376-007A-U	LC10376-010B-U	LC10662-001C-U	LC10662-007B-U
	CONTROL SHEET	LC30597-002A-U	LC30597-007A-U	LC31109-002A-U	LC31109-004A-U
	DOOR (SERVICE)	LC10265-008A-U	LC10265-012B-U	LC10265-008A-U	LC10265-012B-U
	POWER KNOB (SERVICE)	LC30578-002A-C	LC30578-006A-C	LC30578-002A-C	LC30578-006A-C
⚠	REAR COVER	LC10378-001D-U	LC10378-003A-U	LC10664-001C-U	LC10664-002A-U
⚠	RATING LABEL	LC20380-002A-U	LC20380-005A-U	LC20380-004A-U	LC20380-003A-U
⚠	RATING LABEL	LC20379-002A-U	LC20379-005A-U	LC20379-004A-U	LC20379-003A-U
	EURO LABEL	AEM1039-069-E	AEM1039-095-E	AEM1039-068-E	AEM1039-092-E

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power cord plug from wall outlet.
2. As shown in Fig.3, remove the **13** screws marked Ⓐ .
3. Withdraw the rear cover toward you.

REMOVING THE CHASSIS

- After removing the rear cover.

1. Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the chassis from the front cabinet.
2. Withdraw the chassis backward.
   (If necessary, take off the wire clamp, connectors etc.)

REMOVING THE AV BOARD

- After removing the rear cover.

1. As shown in Fig.3, remove the **4** screws marked Ⓑ .
2. As shown in Fig.1, remove the claws marked Ⓒ under the chassis.
3. As shown in Fig.1, while raising the claw marked Ⓓ , remove the top of the AV BOARD slightly in the direction of arrow Ⓔ .

[For 32 inch model]
REMOVING THE DOME SPEAKER BOX AND HORN ADAPTER

- After removing the rear cover.

1. As shown in Fig.3, remove the **2** screws marked Ⓕ , then remove the dome speaker box from front cabinet.
2. Follow the same steps when removing the other hand dome speaker box.
3. As shown in Fig.3, remove the **2** screws marked Ⓖ , then remove the horn adapter.

NOTE : When removing the screws marked Ⓕ of the dome speaker box, remove the lower side screw first, and then remove the upper screw.

[For 28 inch model]
REMOVING THE SPEAKER BOX AND SPEAKER ADAPTER

- After removing the rear cover.

1. As shown in Fig.4, remove the **2** screws marked Ⓗ , then remove the speaker box from front cabinet.
2. Follow the same steps when removing the other hand speaker box.
3. As shown in Fig.4, remove the **2** screws marked Ⓘ , then remove the speaker adapter.

REMOVING THE CONTROL BASE

- After removing the CHASSIS.

1. As shown in Fig.2, while pushing down the claws marked Ⓙ , remove the control base in the arrow direction Ⓚ .

CHECKING THE PW BOARD

To check the back side of the PW Board.

1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
2) Erect the chassis vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.

Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

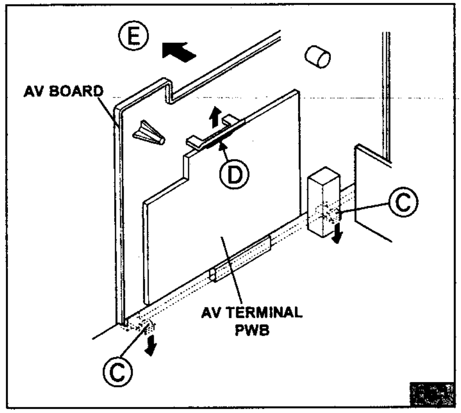

Ⓔ
AV BOARD
Ⓓ
Ⓒ
AV TERMINAL PWB
Ⓒ

Fig.1

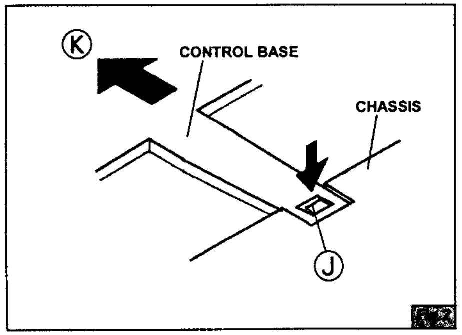
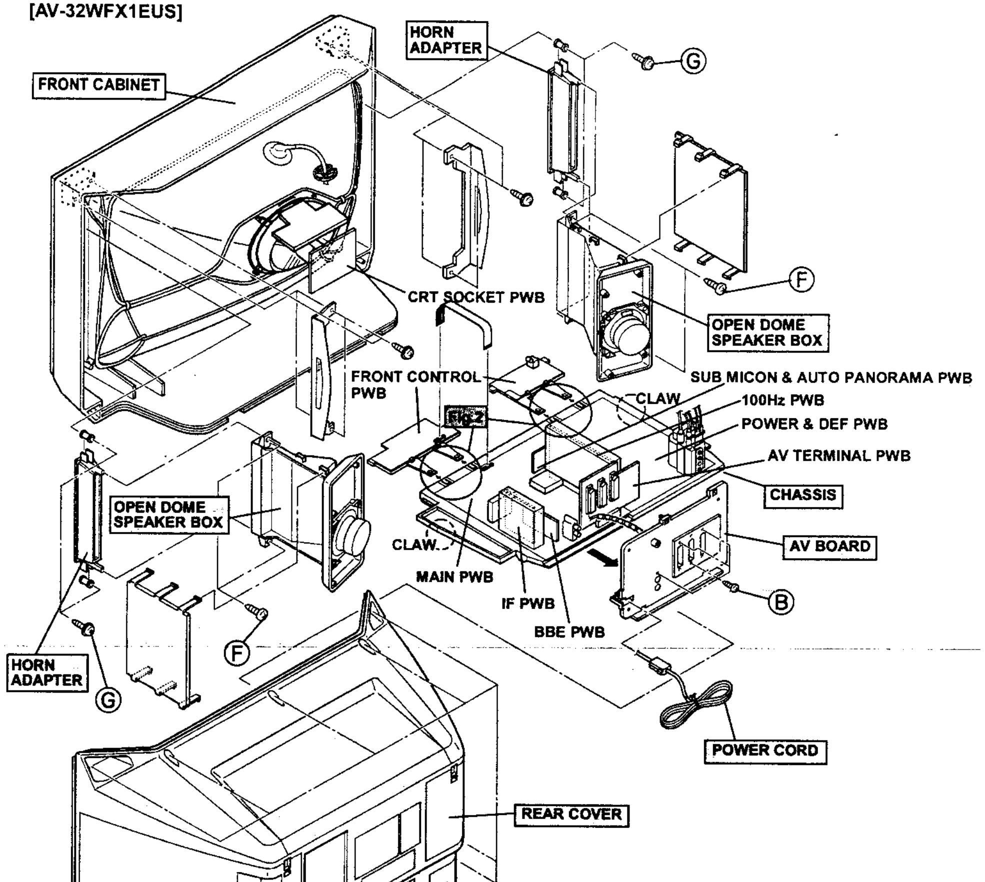

Ⓚ
CONTROL BASE
CHASSIS
Ⓙ

Fig.2

[AV-32WFX1EUG]
[AV-32WFX1EUS]


HORN ADAPTER
Ⓖ
FRONT CABINET
Ⓕ
CRT SOCKET PWB
OPEN DOME SPEAKER BOX
FRONT CONTROL PWB
Fig.2
SUB MICON & AUTO PANORAMA PWB
CLAW
100Hz PWB
POWER & DEF PWB
AV TERMINAL PWB
CHASSIS
OPEN DOME SPEAKER BOX
CLAW
AV BOARD
MAIN PWB
IF PWB
Ⓑ
BBE PWB
Ⓕ
HORN ADAPTER
Ⓖ
POWER CORD
REAR COVER
Ⓐ

This exploded view describes about AV-32WFX1EUG/EUS. Although AV-28WFX1EUG/EUS are some different from this figure, you can use the exploded view for disassembling the AV-28WFX1EUG/EUS in the same step as for the AV-32WFX1EUG/EUS.

Fig.3

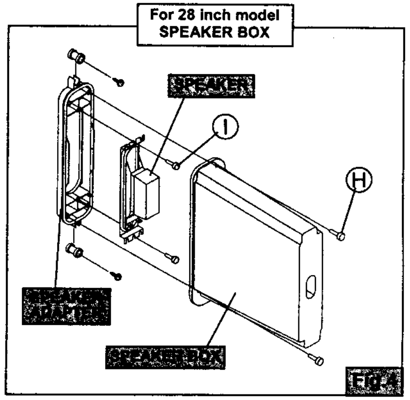

For 28 inch model
SPEAKER BOX
SPEAKER
Ⓘ
Ⓗ
SPEAKER ADAPTER
SPEAKER BOX

Fig.4

REMOVING THE CRT

- Replacement of the CRT should be performed by 2 or more persons.
- After removing the cover, chassis etc..,

1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig.4).
2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig.4.
3. Remove 4 screws marked by arrows with a box type screw driver as shown in Fig.5.

- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

4. After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.6.

- The CRT should be assembled according to the opposite sequence of its dismounting steps.
- The CRT change table should preferably be smaller that the CRT surface, and its height be about 35cm.

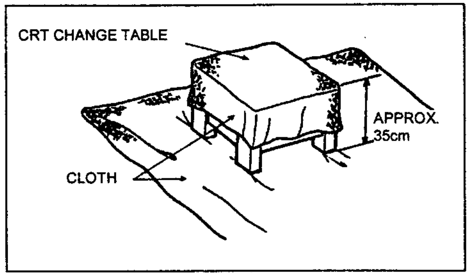

CRT CHANGE TABLE
APPROX. 35cm
CLOTH

Fig. 4

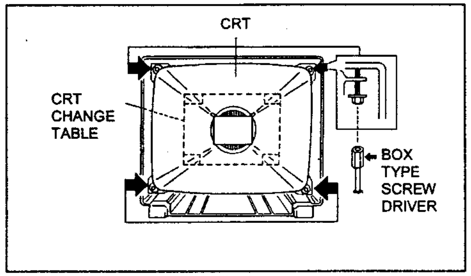

CRT
CRT CHANGE TABLE
BOX TYPE SCREW DRIVER

Fig. 5

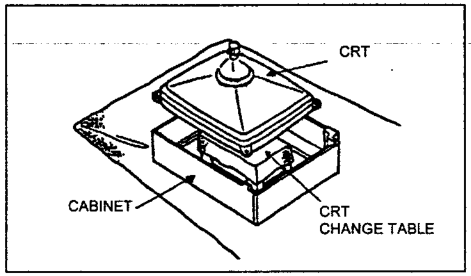

CRT
CABINET
CRT CHANGE TABLE

Fig. 6

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

- Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismounting them, be sure to coat silicon grease for electrical insulation as shown in Fig.7. Wipe around the anode button with clean and dry cloth. (Fig.7) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not stick to the anode button. (Fig.8)

★ **Silicon grease product No. KS - 650N**

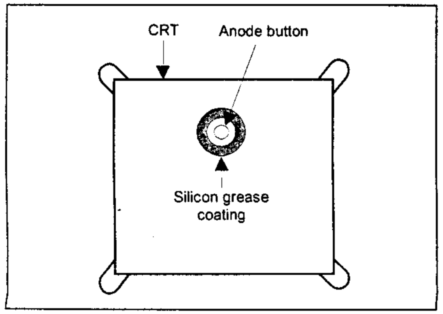

CRT
Anode button
Silicon grease coating

Fig. 7

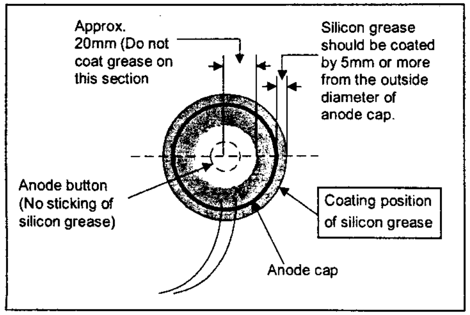

Approx. 20mm (Do not coat grease on this section
Silicon grease should be coated by 5mm or more from the outside diameter of anode cap.
Anode button (No sticking of silicon grease)
Coating position of silicon grease
Anode cap

Fig. 8

REPLACEMENT OF MEMORY ICs

1. Memory ICs

This model uses memory ICs. This memory IC data are for proper operation of the video and deflection circuits. When replacing, be sure to use ICs written with the initial values of data.

2. Procedure for replacing memory ICs

PROCEDURE

(1) **Power off**
Switch off the power and disconnect the power plug from the wall outlet.

(2) **Replace the memory IC**
Be sure to use memory ICs written with the initial data values.

(3) **Power on**
Connect the power plug into the wall outlet and switch the power on.

(4) **Check and set SYSTEM CONSTANT SET**

- **It must not adjust without adjustment signals.**

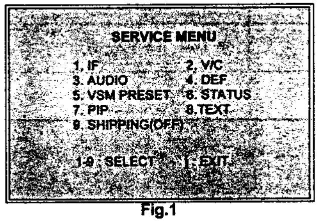
1) Press the **INFORMATION** key and the **MUTING** key of the REMOTE CONTROL UNIT simultaneously.
2) The SERVICE MENU screen of Fig. 1 will be displayed.
3) While the SERVICE MENU is displayed, again press the **INFORMATION** key and **MUTING** key simultaneously, and the SYSTEM CONSTANT SET screen of Fig. 2 will be displayed.
4) Check the setting values of the SYSTEM CONSTANT SET of Table 1. If the value is different, select the setting item with the FUNCTION ▲/▼ key, and set the correct value with the function -/+ key.
5) Press the **MENU** key to memorize the setting value.
6) Press the **INFORMATION** key twice, and return to the normal screen.

(5) **Receive channel setting**
Refer to the OPERATING INSTRUCTIONS, and set the receive channels as described.

(6) **User settings**
Check the user setting items according to Table 2.
Where these do not agree, refer to the OPERATING INSTRUCTIONS.

(7) **SERVICE MENU setting**
Verify what to set in the **SERVICE MENU**, and set whatever is necessary.
For setting, refer to the SERVICE ADJUSTMENTS.

SERVICE MENU



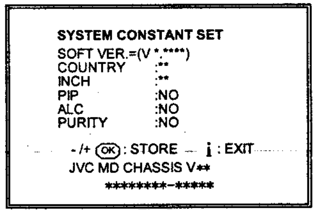
SERVICE MENU

1. IF 2. V/C
3. AUDIO 4. DEF
5. VSM PRESET 6. STATUS
7. PIP 8.TEXT
9. SHIPPING(OFF)

1-9 : SELECT i : EXIT

Fig.1

SYSTEM CONSTANT SET

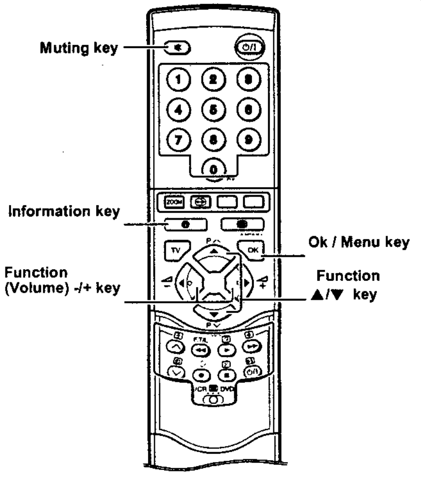


SYSTEM CONSTANT SET
SOFT VER.=(V *.****)
COUNTRY :**
INCH :**
PIP :NO
ALC :NO
PURITY :NO

- /+ (OK) : STORE i : EXIT
JVC MD CHASSIS V**
*********-*****

Fig.2

KEY ASSIGNMENT OF REMOTE CONTROL UNIT


Muting key
Information key
Ok / Menu key
Function (Volume) -/+ key
Function ▲/▼ key
ZOOM
TV
OK
P
F.T/L
VCR
DVD

SETTING VALUES OF SYSTEM CONSTANT SET (TABLE 1)

Setting item	Setting content	Setting value	
		AV-32WFX1EUG AV-32WFX1EUS	AV-28WFX1EUG AV-28WFX1EUS
COUNTRY	→ EK → EN → EP → ER → EU/EI	EU / EI	EU / EI
INCH	→ 28 → 32 → 29	32	28
PIP	→ YES → NO	NO	←
ALC	→ YES → NO	NO	←
PURITY	→ YES → NO	NO	←

USER SETTING VALUES (TABLE 2)

Setting item	Setting value	Setting item	Setting value
SUB POWER	ON	VOLUME	Appropriate sound volume
CHANNEL	1 POSITION	DISPLAY	CHANNEL NUMBER DISPLAY
CHANNEL PRESET	See OPERATING INSTRUCTUONS.	ZOOM	REGULAR
PICTURE SETTING		EXT SETTING	
TINT	COOL	ID	BLANK
CONTRAST BRIGHT SHARP COLOUR HUE	All CENTER	DUBBING	EXT1→EXT2
ECO MODE	OFF		
PICTURE FEATURES		FEATURES	
DIGITAL VNR	AUTO	SLEEP TIMER	OFF
DigiPure	AUTO	BLUE BACK	ON
COLOUR SYSTEM	TV : According to preset CH EXT : AUTO	CHILD LOCK	ID : No.0000 ALL CH OFF
4:3 AUTO ASPECT	PANORAMIC	DECORDER(EXT-2)	OFF
PICTURE TILT	CENTER		
SOUND SETTING		INSTALL	
STEREO / I · II	⚭ (STEREO SOUND)	LANGUAGE	ENGLISH
BASS TREBLE BALANCE	CENTER	AUTO PROGRAM	
BBE	ON	EDIT / MANUAL	
HYPER SOUND	OFF	DEMO	———
SPEAKER	ON	INDEX	———

SERVICE MENU SETTING ITEMS (TABLE 3)

Setting item	Setting value	Setting item	Setting value
1. IF	1. VCO 2. DELAY POINT 3. LV LEVEL	5. VSM PRESET COOL NORMAL WARM	1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE 6. WDR R 7. WDR G 8. WDR B 9. BASS 10. TREBLE
2. V / C	1. RGB BLK 2. WDR R 3. WDR G 4. WDR B 5. CUT R 6. CUT G 7. CUT B 8. BRIGHT 9. CONT. 10. COLOUR 11. HUE 12. CONT LIMIT	6. STATUS *(Do not adjust)*	VPS PDC AUTO SUB SUB VER MTEXT
3. AUDIO *(Do not adjust)*	1. CONC LIMIT 2. A2 ID THR	7. PIP *(Do not adjust)*	This model doesn't have PIP function. It is no requirement to adjust.
4. DEF.	1. V-SHIFT 2. V-SIZE 3. H-CENT 4. H-SIZE 5. EW-PIN 6. TRAPE 7. COR-UP 8. COR-LO 9. ANGLE 10. BOW 11. V-S.CR 12. V-LIN	8. TEXT	1. TEXT MONO H
		9. SHIPPING *(Do not adjust)*	OFF

SERVICE ADJUSTMENTS

BEFORE STARTING SERVICE ADJUSTMENT

1. **There are 2 ways of adjusting this TV: One is with the REMOTE CONTROL UNIT and the other is the conventional method using adjustment parts and components.**
2. **The adjustment with the REMOTE CONTROL UNIT is made on the basis of the initial setting values. The setting values which adjust the screen to its optimum condition may differ from the initial setting values.**
3. Make sure that connection is correctly made to AC power source.
4. Turn on the power of the set and equipment before use, and start the adjustment procedures after waiting at least 30 minuets.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. **Never touch any adjustment parts, which are not specified in the list for this adjustment variable resistors, transforms, condensers, etc.**
7. Preparation for adjustment (presetting):
   Unless otherwise specified in the adjustment instructions, preset the following functions with the REMOTE CONTROL UNIT:

User mode setting condition

PICTURE SETTING (VSM)	COOL
SLEEP TIMER	OFF
HYPER SOUND	OFF
BALANCE	CENTER
ECO	OFF
ZOOM	FULL

MEASURING INSTRUMENT AND FIXTURES

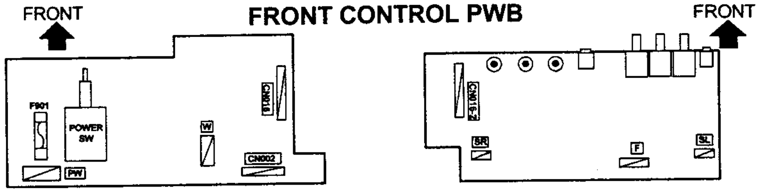
1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [PAL / SECAM / NTSC]
4. Remote control unit

ADJUSTMENT ITEMS

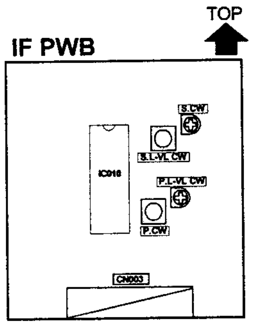
- Check Items before adjustment.
- FOCUS adjustment.
- IF circuit adjustment.
- VSM presetting.
- VIDEO / CHROMA circuit adjustment.
- DEFLECTION circuit adjustment.
- TEXT circuit adjustment.
- AUDIO circuit adjustment. (Do not adjust)

ADJUSTMENT LOCATIONS

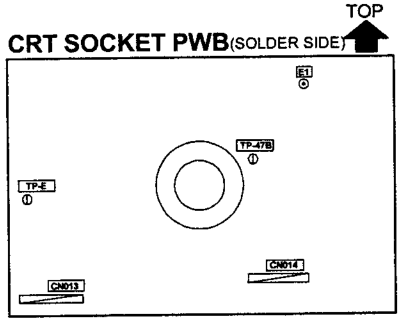
FRONT CONTROL PWB


FRONT
F901
POWER SW
W
CN016
CN002
PW
FRONT
CN016-2
SR
F
SL

IF PWB

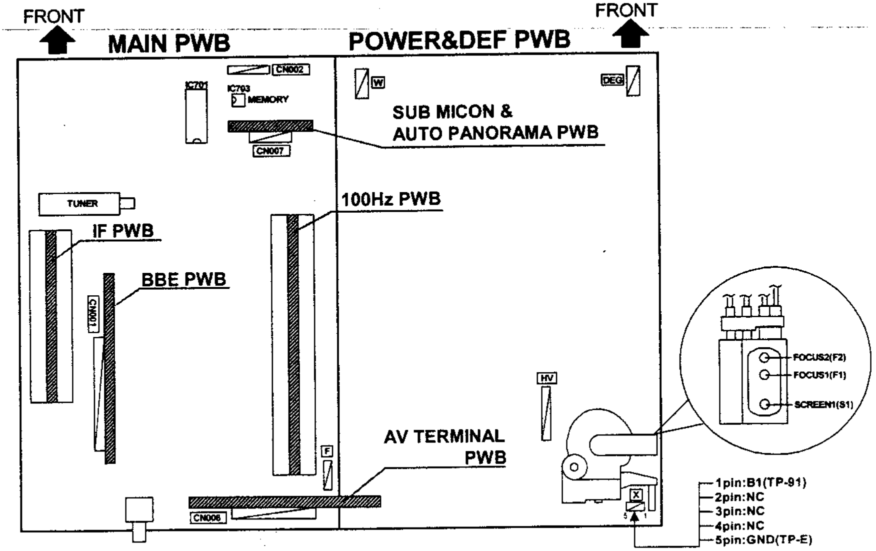

TOP
S.CW
IC016
S.L-VL CW
P.L-VL CW
P.CW
CN003

CRT SOCKET PWB(SOLDER SIDE)


TOP
E1
TP-47B
TP-E
CN014
CN013

MAIN PWB

POWER&DEF PWB


FRONT
FRONT
CN002
IC701
IC703
MEMORY
CN007
SUB MICON & AUTO PANORAMA PWB
W
DEG
TUNER
100Hz PWB
IF PWB
BBE PWB
CN001
F
HV
AV TERMINAL PWB
CN006
X
5
1
FOCUS2(F2)
FOCUS1(F1)
SCREEN1(S1)
1pin:B1(TP-91)
2pin:NC
3pin:NC
4pin:NC
5pin:GND(TP-E)

BASIC OPERATION OF SERVICE MENU

1. The adjustment using SERVICE MENU

The following adjustment items use the SERVICE MENU in the series of the adjustment. The adjustments are made on the basis of the initial setting values. The adjustment values which adjust the screen to the optimum condition can be different from the initial setting values.

With the SERVICE NEMU, various settings can be made, and they are broadly classified in the following items of settings.

IF	Adjustment of the IF circuits.
V/C	Adjustment of the VIDEO/CHROMA circuit.
AUDIO	Adjustment of the sound circuit **[Do not adjust]**.
DEF	Adjustment of the DEFLECTION circuit for each aspect mode given below. FULL (100/120Hz) 16:9 ZOOM SUBTITLE (100/120Hz) PANORAMIC (100/120Hz)
VSM PRESET	Adjustment of the initial setting values of VSM condition as COOL, NORMAL and WARM. (VSM : Video Status Memory)
STATUS	Shows the monitor of the VPS **[Do not adjust]**. (VPS : Video Program System)
PIP	Adjustment of the PIP circuit. But this model does not build in PIP system, because **do not adjust**.
TEXT	Adjustment of the TEXT mode.
SHIPPING	Setting the user setting values to initial condition **[Do not adjust]**.

2. Key operation of the SERVICE MENU

[Enter to SERVICE MENU]

Press the **INFORMATION** key and the **MUTING** key of the REMOTE CONTROL UNIT simultaneously. Then enter the SERVICE MENU mode as shown in Fig.1.

[Exit from SERVICE MENU]

When complete the adjustment work, press the **INFORMATION** key to return to the SERVICE MENU.

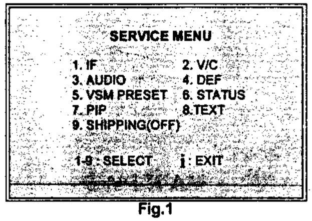
And then press the **INFORMATION** key again, return to the normal screen.

[Select from main menu]

In main SERVICE MENU, press the number (1~9) key of the remote control unit, to select any of the adjustment items.

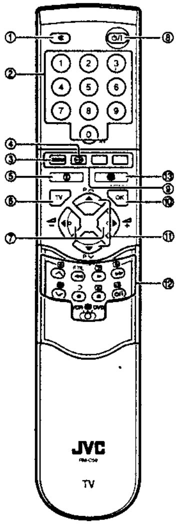
The colours which selected item characters are changed.

SERVICE MENU



SERVICE MENU
1. IF 2. V/C
3. AUDIO 4. DEF
5. VSM PRESET 6. STATUS
7. PIP 8.TEXT
9. SHIPPING(OFF)
1-9 : SELECT i : EXIT

Fig.1



①Muting key
②Number key
③Zoom key
④3D key
⑤Information key
⑥TV key
⑦Volume -/+ key (Function)
⑧Standby key
⑨Colour buttons key
⑩Ok / Menu key
⑪▲/▼ key (Function)
⑫TEXT/VCR/DVD controls key
⑬TEXT key

[Method of setting]

1. IF

[1. VCO]

①1 Key	Select **1.IF**.
②1 Key	Select **1.VCO**

③The VCO (CW) screen will be displayed a allow mark when the AFC voltage is at a certain level.

④INFORMATION Key	As you press this twice, you will return to the **SERVICE MENU**.

[2. DELAY POINT]

①1 Key	Select **1.IF**.
②2 Key	Select **2.DELAY POINT**.
③FUNCTION -/+	Set (adjust) the setting values of the setting items.
④MENU Key	Memorize the set value. (Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys - if you do, the values will not be stored in memory.)
⑤INFORMATION Key	When this is pressed twice, you will return to the SERVICE MENU.

[3. LV LEVEL]

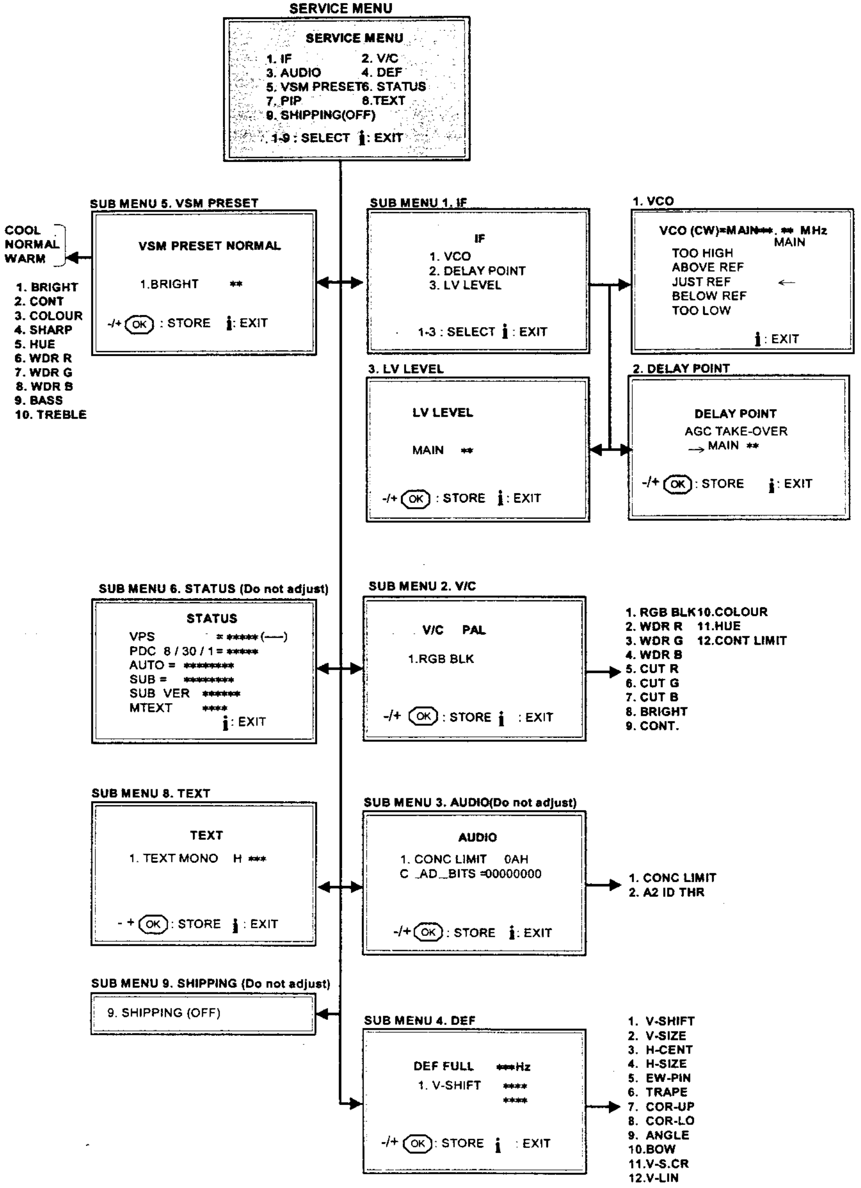
①1 Key	Select **1.IF**.
②3 Key	Select **3.LV LEVEL**.
③FUNCTION -/+ Key	Set (adjust) the setting values of the setting items.
④MENU Key	Memorize the set value. (Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF keys - if you do, the values will not be stored in memory.)
⑤INFORMATION Key	When this is pressed twice, you will return to the SERVICE MENU.

2.V/C, 4.DEF, 5.VSM PRESET and 8.TEXT

①2, 4, 5, 8 Key	Select one from **2. V/C, 4. DEF, 5. VSM PRESET** and **8.TEXT**.
②FUNCTION UP/DOUN Key	Select setting items.
③FUNCTION -/+	Set (adjust) the setting values of the setting items. (When 1.RGB BLK of 2.V/C is selected, press the FUNCTION-/+ key, and the whole will change to a black picture. Press the FUNCTION-/+ or 2 key, and the screen will return to the original screen.)
④MENU Key	Memorize the setting value. (Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key - if you do, the values will not be stored in memory.)
⑤INFOMATION Key	Return to the **SERVICE MENU** screen.

3.AUDIO, 6.STATUS and 9.SHIPPING

3.AUDIO **(Do not adjust)**	It is no requirement to adjustment.
6.STATUS **(Do not adjust)**	This mode displayed monitor of VPS. (Video Program Systems)
9.SHIPPING **(Do not adjust)**	This mode is set the initial setting value of user setting values, you need not to use it for service.


SERVICE MENU
SERVICE MENU
1. IF 2. V/C
3. AUDIO 4. DEF
5. VSM PRESET6. STATUS
7. PIP 8.TEXT
9. SHIPPING(OFF)
1-9 : SELECT i: EXIT
SUB MENU 5. VSM PRESET
VSM PRESET NORMAL
1.BRIGHT **
-/+ OK : STORE i: EXIT
COOL
NORMAL
WARM
1. BRIGHT
2. CONT
3. COLOUR
4. SHARP
5. HUE
6. WDR R
7. WDR G
8. WDR B
9. BASS
10. TREBLE
SUB MENU 1. IF
IF
1. VCO
2. DELAY POINT
3. LV LEVEL
1-3 : SELECT i : EXIT
1. VCO
VCO (CW)=MAIN***. ** MHz
MAIN
TOO HIGH
ABOVE REF
JUST REF
BELOW REF
TOO LOW
i : EXIT
3. LV LEVEL
LV LEVEL
MAIN **
-/+ OK : STORE i: EXIT
2. DELAY POINT
DELAY POINT
AGC TAKE-OVER
→ MAIN **
-/+ OK : STORE i: EXIT
SUB MENU 6. STATUS (Do not adjust)
STATUS
VPS = ***** (—)
PDC 8 / 30 / 1 = *****
AUTO = ********
SUB = ********
SUB VER ******
MTEXT ****
i: EXIT
SUB MENU 2. V/C
V/C PAL
1.RGB BLK
-/+ OK : STORE i : EXIT
1. RGB BLK 10.COLOUR
2. WDR R 11.HUE
3. WDR G 12.CONT LIMIT
4. WDR B
5. CUT R
6. CUT G
7. CUT B
8. BRIGHT
9. CONT.
SUB MENU 8. TEXT
TEXT
1. TEXT MONO H ***
- + OK : STORE i : EXIT
SUB MENU 3. AUDIO(Do not adjust)
AUDIO
1. CONC LIMIT 0AH
C _AD_BITS =00000000
-/+ OK : STORE i: EXIT
1. CONC LIMIT
2. A2 ID THR
SUB MENU 9. SHIPPING (Do not adjust)
9. SHIPPING (OFF)
SUB MENU 4. DEF
DEF FULL ***Hz
1. V-SHIFT ****
****
-/+ OK : STORE i : EXIT
1. V-SHIFT
2. V-SIZE
3. H-CENT
4. H-SIZE
5. EW-PIN
6. TRAPE
7. COR-UP
8. COR-LO
9. ANGLE
10.BOW
11.V-S.CR
12.V-LIN

SUB MENU SCREEN

ADJUSTMENT

CHECK ITEMS BEFORE ADJUSTMENT

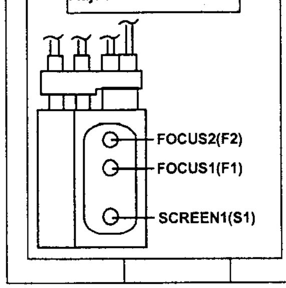
Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 Power supply	Signal generator DC voltmeter	TP-91(B1) TP-E(GND ⏚) [X connector on POWER & DEF PWB]		1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.RGB BLK with Function UP/DOWN key. 4. Press the Function -/+ key, the whole black screen display. 5. Connect a DC voltmeter to TP-91(B1) and TP-E(GND ⏚). 6. Make sure that the voltage is DC139.0V±2.0V.
Check of High voltage	Signal generator High-voltage meter	CRT anode		1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 1.RGB BLK with Function UP/DOWN key. 4. Press the Function -/+ key, the whole black screen display. 5. Connect a High-voltage meter to CRT ANODE 6. Make sure that the voltage is the value as shown in the table below.

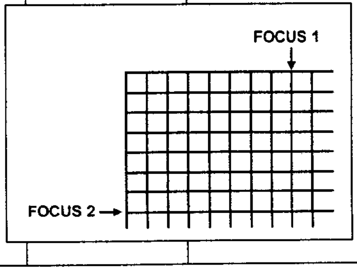
MODEL NAME	High-voltage ratio
AV-32WFX1EUG AV-32WFX1EUS	$31.5\text{kV}^{+1\text{kV}}_{-1.5\text{kV}}$
AV-28WFX1EUG AV-28WFX1EUS	$30.5\text{kV}^{+1\text{kV}}_{-1.5\text{kV}}$

FOCUS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of FOCUS	Signal generator		FOCUS 1 FOCUS 2 [In HVT]	1. Receive a cross-hatch signal. Change the ASPECT mode to FULL. 2. By turning the FOCUS 1 VR, adjust the picture so that the 8th vertical line from the left side of the cross-hatch picture becomes thinnest. 3. By turning the FOCUS 2 VR, adjust the picture so that the 7th horizontal line from the upper side of the cross-hatch picture becomes thinnest. 4. Carry out adjustment by repeating the steps 2 and 3 above. 5. Make sure that when the screen is darkened, the lines remain in good focus.

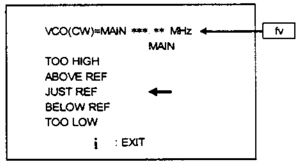
Adjustment VRs in HVT


FOCUS2(F2)
FOCUS1(F1)
SCREEN1(S1)


FOCUS 1
FOCUS 2

IF CIRCUIT Adjustment

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of VCO	Remote control unit		**P. CW TRANSF.** **[On IF PWB]**	● Under normal conditions, it is no adjustment required. ● It must not adjust without signal. 1. Receive a broadcast. 2. Select 1.IF from the SERVICE MENU. 3. Press 1 key and select 1.VCO. 4. Select a SECAM L or PAL broadcast channel with the CHANNEL key. 5. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO HIGH (Step 1). 6. Turn the core of P. CW TRANSF. until the arrow mark (←) on the screen points TOO LOW (Step 2). 7. Then slowly turn back the core of P. CW TRANSF. until the arrow mark (←) on the screen points JUST REF (Step 3). 8. Press the INFORMATION key three times to return to normal screen. 9. Perform CHANNEL PRESET again, and make sure that each broadcast is being received properly.

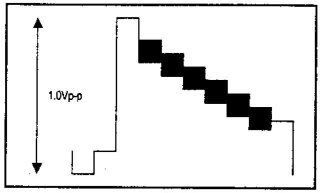


Screen display	Step 1	→ Step 2	→ Step 3
TOO HIGH	←	—	—
ABOVE REFERENCE	—	—	—
JUST REFERENCE	—	—	←
BELOW REFERENCE	—	—	—
TOO LOW	—	←	—

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of DELAY POINT	Remote control unit		**2. DELAY POINT** **(AGC TAKE-OVER)**	1. Receive a black and white signal (colour off). 2. Select 1.IF from the SERVICE MENU. 3. Select 2.DELAY POINT by pressing the 2 key on the remote control. 4. Adjust the FUNCTION - or + key until video noise disappears. 5. Press the MENU key and memorize the set value. 6. Turn to other channels and make sure that there are no irregularities.

Setting item (Adjustment item)	Variable range	Initial setting value
DELAY POINT (AGC TAKE-OVER)	0~63	35

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of LV LEVEL	Signal generator Oscilloscope [H-rate] Remote control unit	EXT-1 ⑲pin (Video OUT)	3. LV LEVEL	1. Receive a SECAM-L full field colour bar signal (100% white). 2. Connect an oscilloscope terminated 75Ω to EXT-1 terminal of ⑲pin (Video out). 3. Select 1. IF from the SERVICE MENU. 4. Press 3 key and select 3.LV LEVEL. 5. Adjust the LV LEVEL by FUNCTION -/+ key and make the wave detector output 1.0Vp-p. 6. Press the MENU key and memorize the set value.



VSM PRESETTING

Item	Measuring instrument	Test point	Adjustment parts	Description
Setting of VSM PRESET ADJUST	Remote control unit		1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE 6. WDR R 7. WDR G 8. WDR B 9. BASS 10. TREBLE	1. Select COOL with the MENU key of the remote control unit. 2. Select 5.VSM PRESET from the SERVICE MENU. 3. Adjust the FUNCTION UP/DOWN and -/+ key to bring the set values of 1.BRIGHT ~ 10.TREBLE to the values shown in the table below. 4. Press the MENU key and memorize the set value. 5. Respectively select the VSM PRESET mode for NORMAL and WARM, and make similar adjustment as in 3 above. 6. Press the MENU key and memorize the set value. * Refer to OPERATING INSTRUCTIONS for the PICTURE MODE.

SETTING VALUES OF VSM PRESET

Setting Item \ VSM preset mode	COOL	NORMAL	WARM
1. BRIGHT SETTING VALUE	-3	+0	+0
2. CONT. SETTING VALUE	+12	-4	-12
3. COLOUR SETTING VALUE	+0	-1	-2
4. SHARP SETTING VALUE	+4	+4	+0
5. HUE SETTING VALUE	+0	+0	+0
6. WDR R SETTING VALUE	-16	+5	+11
7. WDR G SETTING VALUE	-4	+6	+5
8. WDR B SETTING VALUE	-2	+0	-6
9. BASS SETTING VALUE	+0	+0	+0
10.TREBLE SETTING VALUE	+0	+0	+0

VIDEO/CHROMA CIRCUIT ADJUSTMENT

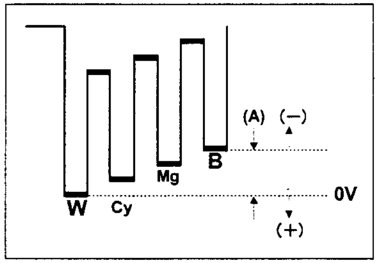
The setting (adjustment) using the REMOTE CONTROL UNIT is made on the basis of the initial setting values.
The setting values which adjust the screen to the optimum condition can be different from the initial setting values.

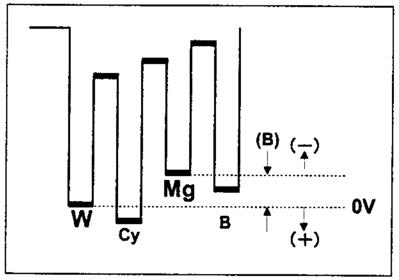
Setting Item (Adjustment Item)	Initial setting value	
	PAL / SECAM	NTSC 3.58 NTSC 4.43
1.RGB BLK	——	——
2.WDR R	+010	——
3.WDR G	-007	——
4.WDR B (Do not adjust)	+000	——
5.CUT R	+000	——
6.CUT G	+000	——

Colour system / Setting item	Initial setting value	
	PAL / SECAM	NTSC 3.58 NTSC 4.43
7.CUT B	+000	——
8.BRIGHT	+000	——
9.CONT	+012	——
10.COLOUR	-008	-011
11.HUE	——	-002
12.CONT. LIMIT(Do not adjust)	+001	——

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of WHITE BALANCE	**Signal generator** **Remote control unit**		**2.WDR R** **3.WDR G** **5.CUT R** **6.CUT G** **7.CUT B**	● Set the PICTURE MODE to NORMAL. 1. Receive a black and white signal(colour off). 2. Select 2. V/C from the SERVICE MENU. 3. Modify 2. WDR R and 3.WDR G data to adjust the white balance (high light). 4. Modify 5. CUT R, 6. CUT G and 7. CUT B data to adjust the white balance (low light). 5. Press the MENU key and memorize the set value.
Adjustment of SUB BRIGHT	**Remote control unit**		**8.BRIGHT**	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 8.BRIGHT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION -/+ key. 5. If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. 6. Press the MENU key and memorize the set value.
Adjustment of SUB CONT.	**Remote control unit**		**9.CONT**	1. Receive any broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 9.CONT with the FUNCTION UP/DOWN key. 4. Set the initial setting value with the FUNCTION - or + key. 5. If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. 6. Press the MENU key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR I	**Remote control unit**		**10.COLOUR**	**[Method of adjustment without measuring instrument]**
			PAL COLOUR	(PAL COLOUR) 1. Receive PAL broadcast. 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value for PAL COLOUR with the FUNCTION - or + key. 5. If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. 6. Press the MENU key and memorize the set value.
			SECAM COLOUR	(SECAM COLOUR) 1. Receive a SECAM broadcast. Make fine adjustment of SECAM COLOUR in the same manner as for above.
			NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal from the EXT terminal. 2. Make similar fine adjustment of NTSC 3.58 COLOUR in the same manner as for above.
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB COLOUR Ⅱ	**Signal generator** **Oscilloscope** **Remote control unit**	**TP-47B** **TP-E(⊥)** **[CRT SOCKET PWB]**	**10.COLOUR**	**[Method of adjustment using measuring instrument]**
			PAL COLOUR	(PAL COLOUR) 1. Receive a PAL full field colour bar signal(75% white). 2. Select 2.V/C from the SERVICE MENU. 3. Select 10.COLOUR with the FUNCTION UP/DOWN key. 4. Set the initial setting value of PAL COLOUR with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust PAL COLOUR and bring the value of (A) in the illustration to -7V (voltage difference between white (w) and blue (B)). 7. Press the MENU key and memorize the setting value.
			SECAM COLOUR	(SECAM COLOUR) 1. Receive a SECAM full field colour bar signal(75% white). 2. Set the initial setting value of SECAM COLOUR with the FUNCTION -/+ key. 3. Adjust SECAM COLOUR and bring the value of (A) of the illustration to -6V(W～B). 4. Press the MENU key and memorize the setting value.
			NTSC COLOUR	(NTSC 3.58 COLOUR) 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Set the initial setting value of NTSC 3.58 COLOUR with the FUNCTION -/+ key. 3. Adjust NTSC 3.58 COLOUR and bring the value of (A) of the illustration to -3V(W～B). 4. Press the MENU key and memorize the setting value.
				(NTSC 4.43 COLOUR) 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of SUB HUE Ⅰ	**Remote control unit**		**11.HUE**	**[Method of adjustment without measuring instrument]**
			NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION -/+ key. 5. If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue. 6. Press the MENU key and memorize the set value.
			NTSC 4.43 HUE	[NTSC 4.43 HUE] 1. When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.
Adjustment of SUB HUE Ⅱ	**Signal generator** **Oscilloscope** **Remote control unit**	**TP-47B** **TP-E(⊥)** **[CRT SOCKET PWB]**	**11.HUE**	**[Method of adjustment using measuring instrument]**
			NTSC 3.58 HUE	[NTSC 3.58 HUE] 1. Input a NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. 2. Select 2.V/C from the SERVICE MENU. 3. Select 11.HUE with the FUNCTION UP/DOWN key. 4. Set the initial setting value of NTSC 3.58 HUE with the FUNCTION - or + key. 5. Connect the oscilloscope between TP-47B and TP-E 6. Adjust NTSC 3.58 HUE to bring the value of (B) in the illustration to -13V (voltage difference between white (W) and magenta(Mg)). 7. Press the MENU key and memorize the setting value
			NTSC 4.43 HUE	[NTSC 4.43 HUE] When NTSC 3.58 is set, NTSC 4.43 will be automatically set at the respective values.

DEFLECTION CIRCUIT ADJUSTMENT

There are 2 modes of the adjustment (1) 100Hz mode (①FULL ②PANORAMIC, ③16:9 ZOOM SUBTITLE), (2) 120Hz mode (each aspect mode) ······ depending upon the kind of signals (vertical frequency 100Hz / 120Hz).

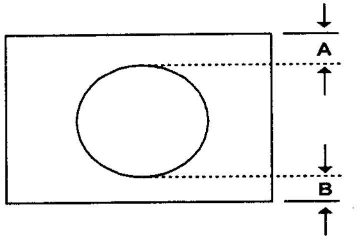
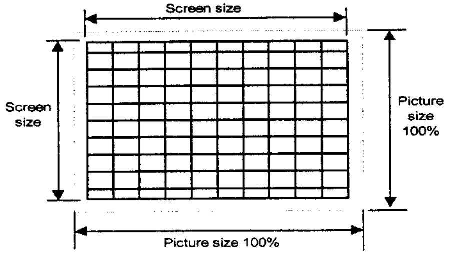
- **When the 100Hz FULL mode has been established, the setting of the other modes will be done automatically.**
- **However, if the picture quality has not been optimized, adjust each mode again, respectively.**
- **The adjustment using the remote control unit is made on the basis of the initial setting values.**
- **The setting values which adjust the screen to the optimum condition can be different from the initial setting values.**
- **Regular and Zoom switching is conducted not by the Deflection circuit, but by the 100 Hz PWB. Therefore, the deflection system cannot be adjusted in these modes.**

INITIAL SETTING VALUE OF AV-32WFX1EUG / AV-32WFX1EUS

Setting item	Adjustment name	FULL		PANORAMIC		16 : 9 ZOOM SUBTITLE	
		100Hz	120Hz	100Hz	120Hz	100Hz	120Hz
1.V- SHIFT	Vertical center	-1	-1	-2	0	-7	-1
2.V-SIZE	Vertical height	+17	-2	+4	+1	+4	0
3.H-CENT	Horizontal center	-3	-1	+1	0	0	0
4.H-SIZE	Horizontal width	-11	-2	0	0	0	0
5.EW-PIN	Side pin correction	+35	-1	+7	-1	+6	+2
6.TRAPEZ	Trapezoidal distortion correction	+6	0	+1	0	0	0
7.COR-UP	Corner upper	+7	+2	+1	+1	+3	0
8.COR LO	Corner lower	+2	0	-9	+1	-8	-3
9.ANGLE	Angle correction	0	0	0	0	0	0
10.BOW	Bow-shaped distortion correction	0	0	0	0	0	0
11.V-S.CR	Vertical height correction	-3	0	+7	0	+7	0
12.V-LIN	Vertical Linearity	-3	+2	-22	0	-30	0

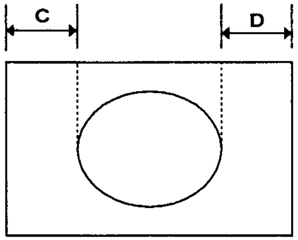
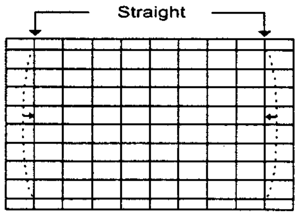
INITIAL SETTING VALUE OF AV-28WFX1EUG / AV-28WFX1EUS

Setting item	Adjustment name	FULL		PANORAMIC		16 : 9 ZOOM SUBTITLE	
		100Hz	120Hz	100Hz	120Hz	100Hz	120Hz
1.V- SHIFT	Vertical center	-1	-1	-2	0	-7	-1
2.V-SIZE	Vertical height	+17	-2	+4	+1	+4	0
3.H-CENT	Horizontal center	-3	-1	+1	0	0	0
4.H-SIZE	Horizontal width	-11	-2	0	0	0	0
5.EW-PIN	Side pin correction	+35	-1	+7	-1	+6	+2
6.TRAPEZ	Trapezoidal distortion correction	+6	0	+1	0	0	0
7.COR-UP	Corner upper	+7	+2	+1	+1	+3	0
8.COR LO	Corner lower	+2	0	-9	+1	-8	-3
9.ANGLE	Angle correction	0	0	0	0	0	0
10.BOW	Bow-shaped distortion correction	0	0	0	0	0	0
11.V-S.CR	Vertical height correction	-3	0	+7	0	+7	0
12.V-LIN	Vertical Linearity	-3	+2	-22	0	-30	0

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of V-SHIFT  	**Signal generator** **Remote control unit**		**1.V- SHIFT**	● At first, change the ASPECT mode to FULL. 1. Receive a circle pattern signal of vertical frequency 50Hz. 2. Select 4.DEF from the SERVICE MENU. 3. Select 1.V-SHIFT with the FUNCTION UP/DOWN key. 4. Adjust V-SHIFT to make **A = B**. 5. Press the MENU key and memorize the set value.
Adjustment of V-SIZE  Screen size Screen size Picture size 100% Picture size 100%	**Signal generator** **Remote control unit**		**2.V-SIZE**	6. Receive a cross-hatch signal. 7. Select 2.V-SIZE and set the initial setting value. 8. Adjust V-SIZE and make sure that the vertical screen size of the picture size is in the bellow table. 9. Press the MENU key and memorize the set value. 10. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below as same as 50Hz adjustment condition. 11. Press the MENU key and memorize the set value.

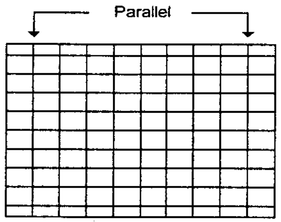
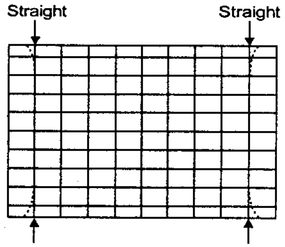
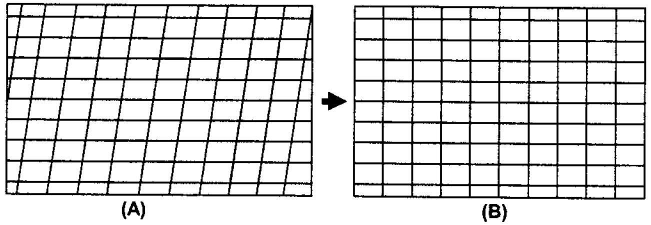
[Vertical size (both 32inch and 28inch)]

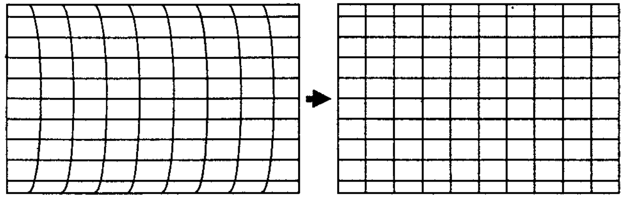
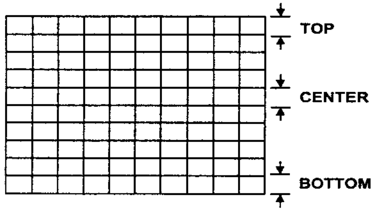
ASPECT MODE / SCREEN	FULL	PANORAMIC	16:9 ZOOM SUB TITLE
SCREEN TOP	92%	87%	70%
SCREEN BOTTOM	92%	87%	83%

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of H.CENTER  	**Signal generator** **Remote control unit**		**3.H-CENT.**	12. Receive a circle pattern signal. 13. Select 4.H-CENT and set the initial setting value. 14. Adjust H-CENT to make **C=D**. 15. Press the MENU key and memorize the set value.
Adjustment of H.SIZE	**Signal generator** **Remote control unit**		**4.H-SIZE**	16. Receive a cross-hatch signal. 17. Select 4.H-SIZE and set the initial setting value. 18. Adjust H-SIZE and make sure that the horizontal screen size of the picture size is in the bellow table. 19. Press the MENU key and memorize the set value. 20. Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size is in the table below. 21. Press the MENU key and memorize the set value.
Adjustment of EW-PIN  	**Signal generator** **Remote control unit**		**5.EW-PIN**	22. Select 5.EW-PIN and set the initial setting value 23. Adjust EW-PIN and make the 2nd vertical lines at the left and right edges of the screen straight. Also make sure that the 3rd vertical lines are straight. 24. Press the MENU key and memorize the set value.

[Horizontal size]

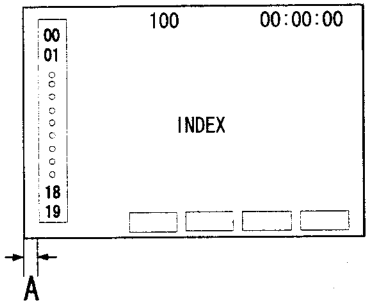
ASPECT SIZE / MODEL	FULL	PANORAMIC	16:9 ZOOM SUBTITLE
AV-32WFX1EUG AV-32WFX1EUS	92%	95%	92%
AV-28WFX1EUG AV-28WFX1EUS	92%	95%	92%

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TRAPEZ  	**Signal generator** **Remote control unit**		**6.TRAPEZ**	25. Receive a cross-hatch signal. 26. Select 6.TRAPEZ with the FUNCTION UP/DOWN key. 27. Set the initial setting value of TRAPEZ with the FUNCTION - or + key. 28. Adjust TRAPEZ and bring the VERTICAL lines at the right and left edges of the screen parallel . 29. Press the MENU key and memorize the set value.
Adjustment of CORNER UP/ LOW  	**Signal generator** **Remote control unit**		**7.COR-UP** **8.COR-LO**	30. Select 8.COR-LO with the FUNCTION UP / DOWN key. 31. Set the initial setting value of COR-LO with the FUNCTION – or + key. 32. Adjust COR-LO, and bring the line to straight at the corner of the screen bottom. 33. Select 7.COR-UP with the FUNCTION UP / DOWN key. 34. Set the initial setting value of COR-UP with the FUNCTION – or + key. 35. Adjust COR-UP, and bring the line to straight at the corner of the screen top. 36. Press the MENU key and memorize the set value.
Adjustment of ANGLE  	**Signal generator** **Remote control unit**		**9.ANGLE**	● In case where there is a parallelogrammical distortion of images on the screen like as shown in Fig.A. 37. Select 9.ANGLE with the FUNCTION UP / DOWN key. 38. Adjust 9. ANGLE, and bring the VERTICAL lines to straight as shown in Fig.B. 39. Press the MENU key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of BOW	**Signal generator Remote control unit**		**10.BOW**	● In case where there is a bow-shaped distortion of images on the screen as shown in Fig.C. 40. Select 10.BOW with the FUNCTION UP/DOWN key. 41. Adjust 10.BOW, and bring the VERTICAL lines to straight. 42. Press the MENU key and memorize the set value as shown in Fig.D.  **(C)** **(D)**
Adjustment of V-S.CR & V.LINE	**Signal generator Remote control unit**		**11.V-S.CR 12.V.LIN.**	● When the vertical linearity has been deteriorated remarkably, perform the following steps. 43. Receive a cross-hatch signal. 44. Select **12. V.LIN** with the FUNCTION UP / DOWN key. 45. Set the initial setting value of **12. V.LIN** with the FUNCTION - / + key. 46. Select **11. V-S.CR.** with the FUNCTION UP / DOWN key. 47. Set the initial setting value of **11. V-S.CR.** with the FUNCTION - / + key. 48. Adjust **12. V.LIN** and **11. V-S.CR**. so that the spaces of each line on **TOP, CENTER**, and **BOTTOM** become uniform. NOTE : Do not adjust "PANORAMIC" & "16 : 9 ZOOM SUBTITLE" mode. 
				At first the adjustment in 100Hz-FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 120Hz (NTSC EXT mode) FULL mode. If the adjustment in 100Hz each aspect mode has been done and stored, the data for the same aspect modes in 120Hz is corrected in the respective value. Only the data for the other aspect mode in 120Hz is corrected for itself.

TEXT CIRCUIT ADJUSTMENT

Setting item	Variable range	Initial setting value
1. TEXT MONO H	00H ~ FFH	0DH
2. TEXT MIX H	00H ~ FFH	00H

Item	Measuring instrument	Test point	Adjustment part	Description
Adjustment of TEXT MONO HORIZONTAL POSITION 			**1.TEXT MONO H**	●Under normal conditions, no adjustment is required. 1. Receive any broadcast which includes the TELETEXT signal. 2. Select 8.OSD / TEXT from SERVICE MENU. 3. Select 1.TEXT MONO H with the FUNCTION UP/DOWN key. 4. Push TEXT key to get a picture of "TEXT-MONO H". 5. Push "SUBPAGE" key. It gets a picture as shown in the left figure. 6. Adjust the value of the distance "d" as shown in the left figure with the FUNCTION -/+ key. Push "SUBPAGE" key to check adjustment every adjust. 7. Press the MENU Key, and memorize the set values.

MODEL	A [mm]
ALL MODELS	5~20mm

AUDIO CIRCUIT ADJUSTMENT

Do not adjust 3. AUDIO of the SERVICE MENU as it requires no adjustment.
3. AUDIO

Setting item	Variable range	Initial setting value (fixed)
1. CONC LIMIT*(Do not adjust)*	00H~FFH	0AH
2. A2 ID THR*(Do not adjust)*	00H~FFH	19H

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

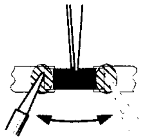
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

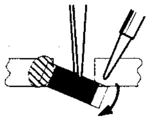
1. How to remove Chip parts

◆ **Resistors, capacitors, etc**

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

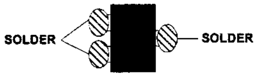


(2) Shift with tweezers and remove the chip part.

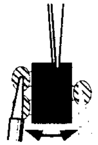


◆ **Transistors, diodes, variable resistors, etc**

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

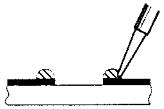


Note : After removing the part, remove remaining solder from the pattern.

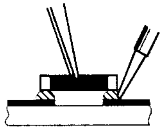
2. How to install Chip parts

◆ **Resistors, capacitors, etc**

(1) Apply solder to the pattern as indicated in the figure.

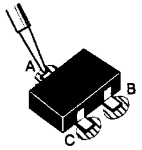


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

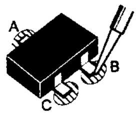


◆ **Transistors, diodes, variable resistors, etc**

(1) Apply solder to the pattern as indicated in the figure.
(2) Grasp the chip part with tweezers and place it on the solder.
(3) First solder lead **A** as indicated in the figure.



(4) Then solder leads **B** and **C**.



PARTS LIST

CAUTION

- ■ The parts identified by the ⚠ symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- ■ The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied.
- ■ P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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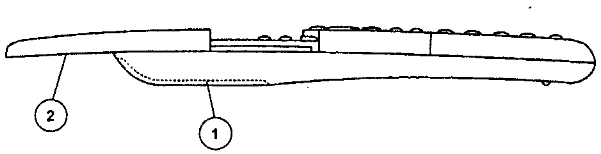
USING PW BOARD & REMOTE CONTROL UNIT

Model PWB ASS'Y	AV-32WFX1EUG	AV-32WFX1EUS	AV-28WFX1EUG	AV-28WFX1EUS
MAIN PWB	SMD-1006A-U2	←	SMD-1007A-U2	←
POWER & DEF PWB	SMD-2006A-U2	←	SMD-2007A-U2	←
IF PWB	SMD0F003A-U2	←	←	←
SUB MICON & AUTO PANORAMA PWB	SMD0W003A-U2	←	←	←
100Hz PWB	SMD0Z005A-U2	←	SMD0Z006A-U2	←
CRT SOCKET PWB	SMD-3005A-U2	←	←	←
FRONT CONTROL PWB	SMD-8005A-U2	←	SMD-8006A-U2	←
BBE PWB	SMD0A001A-U2	←	←	←
AV TERMINAL PWB	SMD0J003A-U2	←	←	←
REMOTE CONTROL UNIT	RM-C50-1C	←	←	←

AV-32WFX1EUG / AV-32WFX1EUS
AV-28WFX1EUG / AV-28WFX1EUS

REMOTE CONTROL UNIT PARTS LIST [RM-C50-1C]



⚠ Ref. No.	Part No.	Part Name	Description
1	2AA027770	BATTERY COVER	
2	2AA027761	SLIDE COVER	

AV-32WFX1EUG / AV-32WFX1EUS

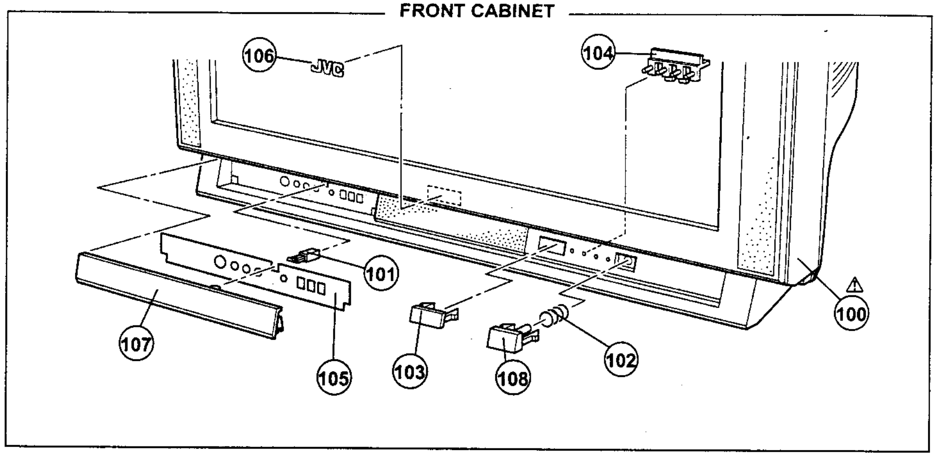
EXPLODED VIEW PARTS LIST (I)

⚠ Ref. No.	Part No.	Part Name	Description
21	LC40506-001A	TAP SCREW	(×4)For HORN ADAPTER
22	LC10379-001A-U	HORN ADAPTER	(×2)
23	LC30820-001C	STICK SHEET	(×4)
24	CEBSF10P-02KJ6	SPEAKER	(×2)SP01, SP02
25	LC40226-001A	SPACER	(×4)
200	2528MXSP-2SE	DOME SPK BOX	(×2)Inc. No. 201～202
201	CM12463-D01-E	HORN	(×2)
202	CM12464-D01-E	HORN PANEL	(×2)
⚠ 100	**LC10376-007A-U**	**FRONT CABI ASSY**	**Inc. No. 101～108 [AV-32WFX1EUG]**
⚠ 100	**LC10376-010B-U**	**FRONT CABI ASSY**	**Inc. No. 101～108 [AV-32WFX1EUS]**
101	CM48229-00A	DOOR LATCH	
102	CM35235-003-H	SPRING	
103	LC30579-001B-C	REMOCON WINDOW	
104	LC30580-001B-C	L. E. D. LENS	
105	**LC30597-002A-U**	**CONTROL SHEET**	**[AV-32WFX1EUG]**
105	**LC30597-007A-U**	**CONTROL SHEET**	**[AV-32WFX1EUS]**
106	LC40354-001C-C	JVC MARK	
107	**LC20265-008A-U**	**DOOR**	**(SERVICE) [AV-32WFX1EUG]**
107	**LC20265-012B-U**	**DOOR**	**(SERVICE) [AV-32WFX1EUS]**
108	**LC30578-002A-C**	**POWER KNOB**	**(SERVICE) [AV-32WFX1EUG]**
108	**LC30578-006A-C**	**POWER KNOB**	**(SERVICE) [AV-32WFX1EUS]**

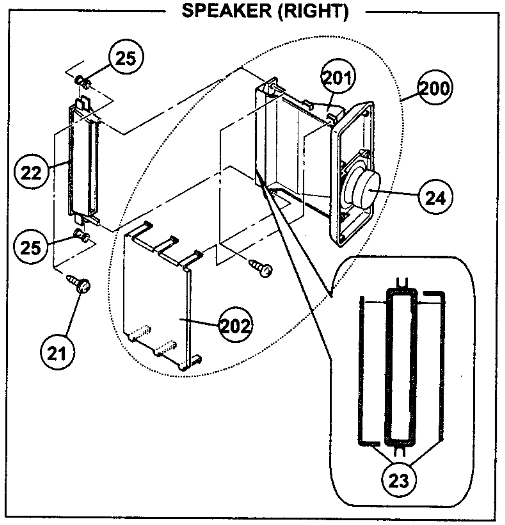
AV-32WFX1EUG / AV-32WFX1EUS

EXPLODED VIEW (I)

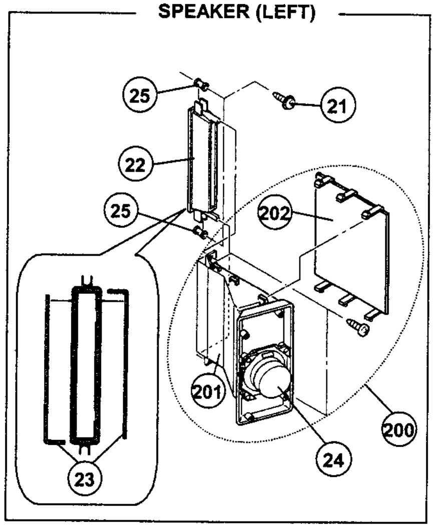
FRONT CABINET



SPEAKER (RIGHT)



SPEAKER (LEFT)



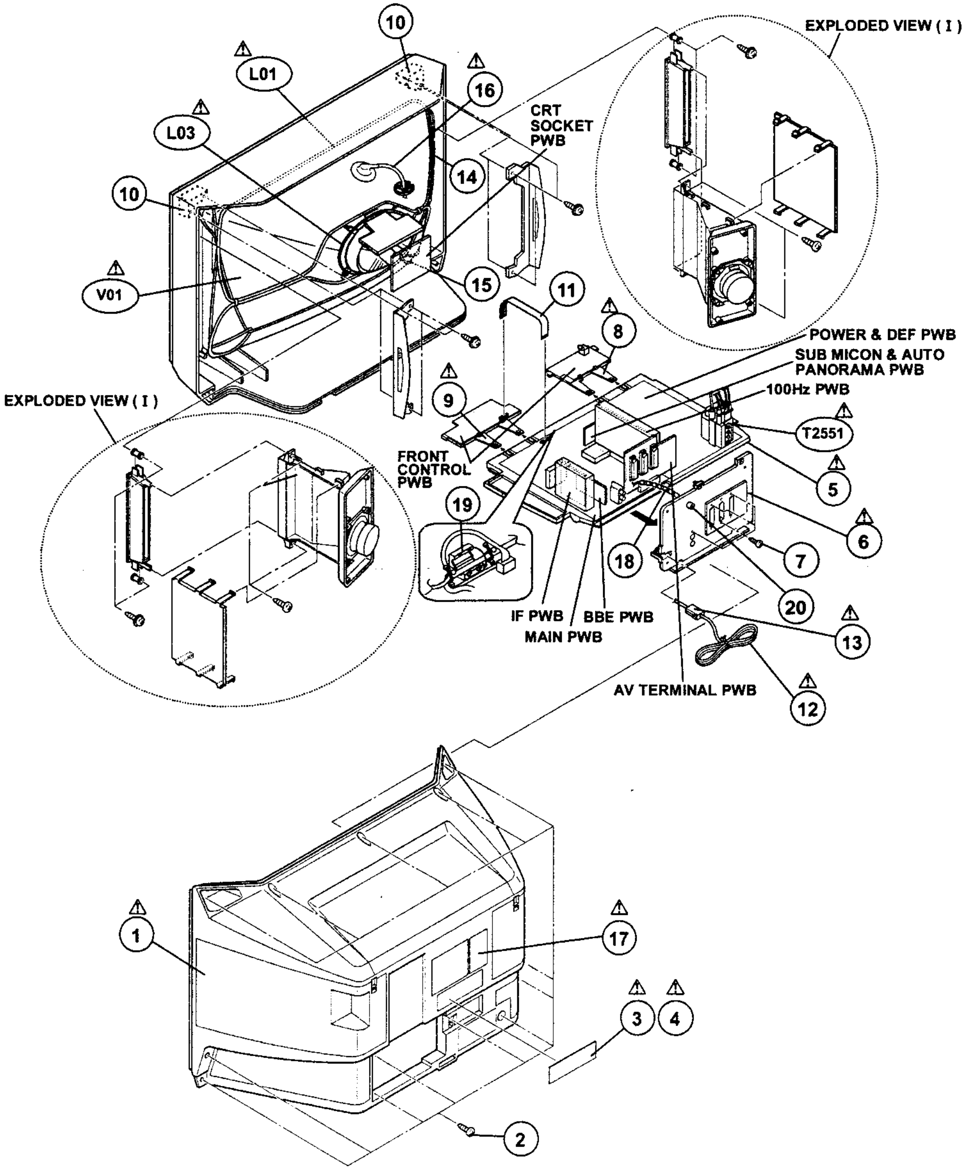
AV-32WFX1EUG/AV-32WFX1EUS

EXPLODED VIEW PARTS LIST (Ⅱ)

⚠	Ref. No.	Part No.	Part Name	Description
⚠	V01	W76ERF031X044	CRT	Inc. DY, PC, WED
⚠	L01	QQW0066-001	DEG COIL	
⚠	L03	CELD904-001	ROTATION COIL	
⚠	T2551	QQH0054-002-12	H. V. TRANSF.	(SERVICE) Within POWER & DEF PWB
⚠	1	**LC10378-001D-U**	**REAR COVER**	**[AV-32WFX1EUG]**
⚠	1	**LC10378-003A-U**	**REAR COVER**	**[AV-32WFX1EUS]**
	2	QYSBSAG4016N	TAPPING SCREW	(×13)For REAR COVER
⚠	3	**LC20380-002A-U**	**RATING LABEL**	**For ENG/GER/FRA [AV-32WFX1EUG]**
⚠	3	**LC20380-005A-U**	**RATING LABEL**	**For ENG/GER/FRA [AV-32WFX1EUS]**
⚠	4	**LC20379-002A-U**	**RATING LABEL**	**For ENG/GER/ITA [AV-32WFX1EUG]**
⚠	4	**LC20379-005A-U**	**RATING LABEL**	**For ENG/GER/ITA [AV-32WFX1EUS]**
⚠	5	LC10716-001D-U	CHASSIS BASE	
⚠	6	LC10717-001B-U	AV BOARD	
	7	QYSBSB3012M	TAPPING SCREW	(×4)For AV BOARD
⚠	8	LC10380-001C-U	CONTROL BASE L	
⚠	9	LC10380-002B-U	CONTROL BASE R	
	10	LC20508-001D-U	ADAPTER	(×4)
	11	CHFD125-14BD	FFC WIRE	
⚠	12	QMPK160-185-JC	POWER CORD	
⚠	13	CM46618-A01-E	POWER CORD CLAMP	
	14	CHGB0029-0C	BRAIDED ASSY	
	15	CHGB0017-0B	BRAIDED SUB ASSY	(×2)
⚠	16	QNZ0407-001	ANODE WIRE ASSY	
⚠	17	LC30789-002A-U	WARNING LABEL	
	18	WJX0006-001A	E-COAXIAL ASSY	
	19	QQR0491-001	FILTER	
	20	CE42112-002	PALJ CONNECTOR	

AV-32WFX1EUG/AV-32WFX1EUS

EXPLODED VIEW (Ⅱ)


10
⚠ L01
⚠ 16
⚠ L03
CRT SOCKET PWB
14
10
EXPLODED VIEW (Ⅰ)
⚠ V01
15
11
⚠ 8
POWER & DEF PWB
SUB MICON & AUTO PANORAMA PWB
100Hz PWB
EXPLODED VIEW (Ⅰ)
⚠ 9
⚠ T2551
⚠ 5
FRONT CONTROL PWB
19
⚠ 6
7
18
20
IF PWB
BBE PWB
MAIN PWB
⚠ 13
AV TERMINAL PWB
⚠ 12
⚠ 1
⚠ 17
⚠ 3
⚠ 4
2

AV-32WFX1EUG / AV-32WFX1EUS

PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SMD-1006A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R1001	QRK126J-474X	C R	470kΩ 1/2W J
	R1002	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1003-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1104	NRSA02J-681X	MG R	680Ω 1/10W J
	R1105	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1107	NRSA02J-391X	MG R	390Ω 1/10W J
	R1108	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1109	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1111	NRSA02J-821X	MG R	820Ω 1/10W J
	R1112	NRSA02J-101X	MG R	100Ω 1/10W J
	R1113	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1121-22	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1123	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1124	NRSA02J-821X	MG R	820Ω 1/10W J
	R1125-27	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1128	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1131-33	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1134	NRSA02J-681X	MG R	680Ω 1/10W J
	R1135	NRSA02J-561X	MG R	560Ω 1/10W J
	R1136	NRSA02J-681X	MG R	680Ω 1/10W J
	R1137	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1138	NRSA02J-391X	MG R	390Ω 1/10W J
	R1140	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1141	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1142	NRSA02J-821X	MG R	820Ω 1/10W J
	R1151	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1152-53	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1154	NRSA02J-681X	MG R	680Ω 1/10W J
	R1155	NRSA02J-561X	MG R	560Ω 1/10W J
	R1156	NRSA02J-681X	MG R	680Ω 1/10W J
	R1157	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1158	NRSA02J-391X	MG R	390Ω 1/10W J
	R1160	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1161	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1162	NRSA02J-821X	MG R	820Ω 1/10W J
	R1171	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1172	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1173	NRSA02J-221X	MG R	220Ω 1/10W J
	R1174	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1175	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1177	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1178	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1179	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1201-02	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1203	NRSA02J-750X	MG R	75Ω 1/10W J
	R1204	QRK126J-151X	C R	150Ω 1/2W J
	R1205	NRSA02J-101X	MG R	100Ω 1/10W J
	R1206	QRG01GJ-101	OM R	100Ω 1W J
	R1207	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1208	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1209	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1210	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1211	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1212	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1213	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1214	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1215	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1216	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1217	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1218	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1219	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1220	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1221	NRSA02J-391X	MG R	390Ω 1/10W J
	R1222	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1223	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1224	NRSA02J-391X	MG R	390Ω 1/10W J
	R1225-26	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1227	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1228	NRSA02J-680X	MG R	68Ω 1/10W J
	R1229	QRK126J-181X	C R	180Ω 1/2W J
	R1231	QRG01GJ-101	OM R	100Ω 1W J
	R1232	NRSA02J-101X	MG R	100Ω 1/10W J
	R1233	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1242	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1243	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1244	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1245	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1246	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1247	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1248	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1249	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1250	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1251	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1253	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1254	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1255	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1256	NRSA02J-391X	MG R	390Ω 1/10W J
	R1257	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1258	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1259	NRSA02J-391X	MG R	390Ω 1/10W J
	R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1262	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1263	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1264	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1265	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1266	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1267-69	NRSA02J-750X	MG R	75Ω 1/10W J
	R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J
	R1280	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1281	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1282	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1283	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1284	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1285	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1286	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1287	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1289	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1290	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1291	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1292	NRSA02J-471X	MG R	470Ω 1/10W J
	R1301	NRSA02J-101X	MG R	100Ω 1/10W J
	R1302	NRSA02J-471X	MG R	470Ω 1/10W J
	R1303	NRSA02J-101X	MG R	100Ω 1/10W J
	R1304	NRSA02J-471X	MG R	470Ω 1/10W J
	R1305	NRSA02J-221X	MG R	220Ω 1/10W J
	R1306	NRSA02J-271X	MG R	270Ω 1/10W J
	R1307	NRSA02J-101X	MG R	100Ω 1/10W J
	R1308	NRSA02J-471X	MG R	470Ω 1/10W J
	R1309	NRSA02J-101X	MG R	100Ω 1/10W J
	R1310	NRSA02J-471X	MG R	470Ω 1/10W J
	R1311	NRSA02J-221X	MG R	220Ω 1/10W J
	R1312	NRSA02J-271X	MG R	270Ω 1/10W J
	R1313	NRSA02J-101X	MG R	100Ω 1/10W J
	R1314-15	NRSA02J-471X	MG R	470Ω 1/10W J
	R1317-18	NRSA02J-101X	MG R	100Ω 1/10W J
	R1320	NRSA02J-221X	MG R	220Ω 1/10W J
	R1323-24	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1326-29	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1330	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1331	NRSA02J-101X	MG R	100Ω 1/10W J
	R1332-33	NRSA02J-471X	MG R	470Ω 1/10W J
	R1334-35	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1336	NRSA02J-101X	MG R	100Ω 1/10W J
	R1337	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1338-40	NRSA02J-101X	MG R	100Ω 1/10W J
	R1341	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1342	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1343-44	NRSA02J-101X	MG R	100Ω 1/10W J
	R1345-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1347	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1348	NRSA02J-471X	MG R	470Ω 1/10W J
	R1349	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1350	NRSA02J-271X	MG R	270Ω 1/10W J
	R1381	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1382	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1383	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1384	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1385	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1386	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1387	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1388	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1389	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1390	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1391	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1392	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1395-97	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1398	NRSA02J-101X	MG R	100Ω 1/10W J
	R1401-02	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1403	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1404	QRX01GJ-1R0	MF R	1.0Ω 1W J
	R1405	QRL029J-221	OM R	220Ω 2W J
	R1406	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1407-08	QRX01GJ-1R5	MF R	1.5Ω 1W J
	R1409-10	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1461	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1462	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1463	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1464	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1501	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1551	NRSA02J-100X	MG R	10Ω 1/10W J
	R1552	NRSA02J-124X	MG R	120kΩ 1/10W J
	R1553	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1554	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1555	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1556	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1557	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1558	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1559	NRSA02J-154X	MG R	150kΩ 1/10W J
	R1560	NRSA02J-100X	MG R	10Ω 1/10W J
	R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J
	R1601	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1602	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1603	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1604	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1605	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R1606-07	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1608	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1609	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1610	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1611	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1612	NRSA02J-561X	MG R	560Ω 1/10W J
	R1613-14	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1615	NRSA02J-681X	MG R	680Ω 1/10W J
	R1616	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1617-18	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1651	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1652	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1653	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1654	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1655	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1656-57	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1659-60	QRN143J-2R2X	C R	2.2Ω 1/4W J
	R1661	NRSA02J-561X	MG R	560Ω 1/10W J
	R1665	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1666	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1668	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1669	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1670	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1671	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1682	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1683	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1684	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1685-86	NRSA02J-681X	MG R	680Ω 1/10W J
	R1687-88	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1703-05	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1708	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1709	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1710	NRSA02J-821X	MG R	820Ω 1/10W J
	R1711	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1713-14	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1716	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1718	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1719	NRSA02J-101X	MG R	100Ω 1/10W J
	R1720	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1721-23	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1724-26	NRSA02J-821X	MG R	820Ω 1/10W J
	R1727	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1728	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1729	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1730	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1731	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1732	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1733	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1734	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1735-36	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1738	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1739	NRSA02J-331X	MG R	330Ω 1/10W J
	R1740	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1742	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1743	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1744-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1747	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1751-52	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1753	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1754	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1755	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1756-57	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1758-59	NRSA02J-221X	MG R	220Ω 1/10W J
	R1760	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1761-65	NRSA02J-221X	MG R	220Ω 1/10W J
	R1766	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1767	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1768	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1770	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1771	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1772-74	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1775-76	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1777	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1778	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1779	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1780	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1791	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1792	NRSA02J-101X	MG R	100Ω 1/10W J
	R1793	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1794	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1797	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1820	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1880-82	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1883	NRSA02J-473X	MG R	47kΩ 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1884-86	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1888-89	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1890	NRSA02J-221X	MG R	220Ω 1/10W J
	R1891	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1892-96	NRSA02J-221X	MG R	220Ω 1/10W J
	R1897	QRG029J-220	OM R	22 Ω 2W J
	R1901	NRSA02J-101X	MG R	100Ω 1/10W J
	R1902	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1903	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1904	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1905	NRSA02J-102X	MG R	1kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1001	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1002	QETN1HM-107Z	E CAP.	100μF 50V M
	C1003	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1004	QETN1CM-107Z	E CAP.	100μF 16V M
	C1005	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1006	QETN1CM-227Z	E CAP.	220μF 16V M
	C1007	NCB21HK-222X	C CAP.	2200pF 50V K
	C1008	QETN1HM-106Z	E CAP.	10μF 50V M
	C1101-02	QETN1CM-107Z	E CAP.	100μF 16V M
	C1103	NDC21HJ-181X	C CAP.	180pF 50V J
	C1104	QETN1EM-476Z	E CAP.	47μF 25V M
	C1105	QENC1HM-474Z	BP E CAP.	0.47μF 50V M
	C1106	QETN1HM-106Z	E CAP.	10μF 50V M
	C1107	QETN1AM-227Z	E CAP.	220μF 10V M
	C1108	NDC21HJ-120X	C CAP.	12pF 50V J
	C1109	NDC21HJ-470X	C CAP.	47pF 50V J
	C1110	NDC21HJ-220X	C CAP.	22pF 50V J
	C1121-22	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1123	QETN1EM-476Z	E CAP.	47μF 25V M
	C1124-25	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1128	QETN1CM-107Z	E CAP.	100μF 16V M
	C1129	QETN1EM-476Z	E CAP.	47μF 25V M
	C1130	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1131	QETN1EM-476Z	E CAP.	47μF 25V M
	C1132	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1134	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1135	NDC21HJ-181X	C CAP.	180pF 50V J
	C1136-39	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1140	QETN1EM-476Z	E CAP.	47μF 25V M
	C1141	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1151	QETN1AM-227Z	E CAP.	220μF 10V M
	C1152	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1153	QETN1AM-107Z	E CAP.	100μF 10V M
	C1155	QETN1EM-476Z	E CAP.	47μF 25V M
	C1156	NDC21HJ-270X	C CAP.	27pF 50V J
	C1157	NDC21HJ-220X	C CAP.	22pF 50V J
	C1161	QETN1EM-476Z	E CAP.	47μF 25V M
	C1163	QETN1EM-476Z	E CAP.	47μF 25V M
	C1171	NDC21HJ-221X	C CAP.	220pF 50V J
	C1172	NDC21HJ-560X	C CAP.	56pF 50V J
	C1173	NDC21HJ-221X	C CAP.	220pF 50V J
	C1174	NDC21HJ-121X	C CAP.	120pF 50V J
	C1192	QETN1CM-227Z	E CAP.	220μF 16V M
	C1193	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1201	QETN1CM-227Z	E CAP.	220μF 16V M
	C1202	NCB21HK-102X	C CAP.	1000pF 50V K
	C1203-04	QETN1HM-105Z	E CAP.	1μF 50V M
	C1205-06	QETN1HM-106Z	E CAP.	10μF 50V M
	C1207	QETN1CM-227Z	E CAP.	220μF 16V M
	C1211	NCB21HK-102X	C CAP.	1000pF 50V K
	C1212-13	QETN1HM-105Z	E CAP.	1μF 50V M
	C1214-15	QETN1HM-106Z	E CAP.	10μF 50V M
	C1216-17	QETN1HM-105Z	E CAP.	1μF 50V M
	C1218-19	QETN1EM-476Z	E CAP.	47μF 25V M
	C1220	QETN1HM-105Z	E CAP.	1μF 50V M
	C1221-22	QETN1CM-107Z	E CAP.	100μF 16V M
	C1223-24	QETN1HM-105Z	E CAP.	1μF 50V M
	C1231-33	QETN1EM-476Z	E CAP.	47μF 25V M
	C1234	NCB21HK-102X	C CAP.	1000pF 50V K
	C1301	QETN1CM-227Z	E CAP.	220μF 16V M
	C1302	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1303	QETN1EM-476Z	E CAP.	47μF 25V M
	C1304	QENC1CM-476Z	BP E CAP.	47μF 16V M
	C1305	QETN1HM-226Z	E CAP.	22μF 50V M
	C1306	NCB21HK-223X	C CAP.	0.022μF 50V K
	C1307-08	QENC1HM-105Z	BP E CAP.	1μF 50V M
	C1309	NDC21HJ-390X	C CAP.	39pF 50V J
	C1311-13	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1314	NCB21HK-222X	C CAP.	2200pF 50V K
	C1315	NCB21CK-474X	C CAP.	0.47μF 16V K
	C1316	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1317	NCB21EK-154X	C CAP.	0.15μF 25V K
	C1318	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1319	NCB21HK-332X	C CAP.	3300pF 50V K
	C1320	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1321-22	NDC21HJ-150X	C CAP.	15pF 50V J
	C1323	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1325-26	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1327	QETN1CM-227Z	E CAP.	220μF 16V M
	C1328-32	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1333	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1342-44	NDC21HJ-220X	C CAP.	22pF 50V J
	C1345	NDC21HJ-121X	C CAP.	120pF 50V J
	C1362	NDC21HJ-330X	C CAP.	33pF 50V J
	C1363-65	QETN1HM-106Z	E CAP.	10μF 50V M
	C1366	NDC21HJ-180X	C CAP.	18pF 50V J
	C1387-88	QETN1EM-476Z	E CAP.	47μF 25V M
	C1389-90	QETN0JM-228Z	E CAP.	2200μF 6.3V M
	C1392	NDC21HJ-680X	C CAP.	68pF 50V J
	C1396-98	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1403	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
	C1404	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1405	NDC21HJ-820X	C CAP.	82pF 50V J
	C1406	QETN1VM-108	E CAP.	1000μF 35V M
	C1408	QETN1VM-337Z	E CAP.	330μF 35V M
	C1409-10	QFV71HJ-474Z	MF CAP.	0.47μF 50V J
	C1412	QFLC2AJ-104Z	M CAP.	0.1μF 100V J
	C1417-18	QETN1CM-108Z	E CAP.	1000μF 16V M
	C1419	NCB21HK-682X	C CAP.	6800pF 50V K
	C1461	QETN1HM-226Z	E CAP.	22μF 50V M
	C1551-52	NCB21CK-224X	C CAP.	0.22μF 16V K
	C1553	QETN1EM-476Z	E CAP.	47μF 25V M
	C1554-55	NCB21CK-224X	C CAP.	0.22μF 16V K
	C1601-02	QDC31HJ-2R0Z	C CAP.	2.0pF 50V J
	C1603-04	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1605-06	QETN1HM-106Z	E CAP.	10μF 50V M
	C1607-08	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1613-14	NDC21HJ-471X	C CAP.	470pF 50V J
	C1615	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1616-18	QETN1HM-106Z	E CAP.	10μF 50V M
	C1619	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1620	QETN1HM-106Z	E CAP.	10μF 50V M
	C1621-24	NCB21HK-102X	C CAP.	1000pF 50V K
	C1625-26	NDC21HJ-391X	C CAP.	390pF 50V J
	C1627-28	NCB21HK-102X	C CAP.	1000pF 50V K
	C1629	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1630	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1631	QETN1CM-107Z	E CAP.	100μF 16V M
	C1632	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C1633-34	QETN1HM-105Z	E CAP.	1μF 50V M
	C1635	NCB21HK-562X	C CAP.	5600pF 50V K
	C1636	QETN1CM-107Z	E CAP.	100μF 16V M
	C1637-38	NDC21HJ-221X	C CAP.	220pF 50V J
	C1639-40	QETN1HM-106Z	E CAP.	10μF 50V M
	C1641	QETN1EM-476Z	E CAP.	47μF 25V M
	C1642	NCB21HK-562X	C CAP.	5600pF 50V K
	C1643	QETN1HM-105Z	E CAP.	1μF 50V M
	C1644-45	NDC21HJ-470X	C CAP.	47pF 50V J
	C1646	NDC21HJ-820X	C CAP.	82pF 50V J
	C1647	NCB21HK-472X	C CAP.	4700pF 50V K
	C1648	NDC21HJ-180X	C CAP.	18pF 50V J
	C1652-53	QETN1HM-105Z	E CAP.	1μF 50V M
	C1654	QETN1HM-107Z	E CAP.	100μF 50V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1655	QETN1HM-106Z	E CAP.	10μF 50V M
	C1656-57	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C1658	QETM1HM-228	E CAP.	2200μF 50V M
	C1661-62	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C1663-64	QETM1VM-108	E CAP.	1000μF 35V M
	C1667	QETN1CM-227Z	E CAP.	220μF 16V M
	C1676-77	NCB21HK-103X	C CAP.	0.01μF 50V K
	C1679	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1682	QETN1CM-227Z	E CAP.	220μF 16V M
	C1701	NDC21HJ-471X	C CAP.	470pF 50V J
	C1702	NCB21HK-682X	C CAP.	6800pF 50V K
	C1703	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1704	QETN1AM-227Z	E CAP.	220μF 10V M
	C1705-06	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
	C1707	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1708	NCB21HK-333X	C CAP.	0.033μF 50V K
	C1709	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1710	QETN1EM-476Z	E CAP.	47μF 25V M
	C1711	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1714	QETN1HM-474Z	E CAP.	0.47μF 50V M
	C1715	QETN1EM-476Z	E CAP.	47μF 25V M
	C1717	QETN1HM-106Z	E CAP.	10μF 50V M
	C1718	NDC21HJ-471X	C CAP.	470pF 50V J
	C1719	NCF21CZ-105X	C CAP.	1μF 16V Z
	C1720	NCB21HK-102X	C CAP.	1000pF 50V K
	C1757	NCS21HJ-471X	C CAP.	470pF 50V J
	C1758	QETN1AM-227Z	E CAP.	220μF 10V M
	C1759	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1760-61	NDC21HJ-150X	C CAP.	15pF 50V J
	C1762	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1763	QETN1EM-476Z	E CAP.	47μF 25V M
	C1764	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1766-68	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1774	NDC21HJ-151X	C CAP.	150pF 50V J
	C1776-77	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1780	NCB21HK-104X	CHIP CAP.	0.1μF 50V K
	C1781	NDC21HJ-101X	C CAP.	100pF 50V J
	C1782	NCB21HK-102X	C CAP.	1000pF 50V K
	C1783	NDC21HJ-151X	C CAP.	150pF 50V J
	C1784	QETN1CM-227Z	E CAP.	220μF 16V M
	C1785	NCB21HK-102X	C CAP.	1000pF 50V K
	C1901	QETN1CM-107Z	E CAP.	100μF 16V M
	C1902	QETN1HM-106Z	E CAP.	10μF 50V M

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T1101	CE42697-001	LOWPASS FILTER	
	T1111	CE42697-001	LOWPASS FILTER	
	T1121	CE42697-001	LOWPASS FILTER	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1001-02	QQL01BK-8R2Z	PEAKING COIL	8.2μH
	L1003	QQL01BK-221Z	PEAKING COIL	220μH
	L1004	QQL01BK-5R6Z	PEAKING COIL	5.6μH
	L1101	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1102-05	QQL03BJ-220Z	PEAKING COIL	22μH
	L1106	QQL03BJ-270Z	PEAKING COIL	27μH
	L1111	QQL03BJ-220Z	PEAKING COIL	22μH
	L1121	QQL03BJ-330Z	PEAKING COIL	33μH
	L1301	QQL01BK-390Z	PEAKING COIL	39μH
	L1302	NQL024J-5R6X	COIL	5.6μH
	L1601-02	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1603	QQL01BK-100Z	PEAKING COIL	10μH
	L1604	QQL01BJ-180Z	PEAKING COIL	18μH
	L1605	QQL01BJ-220Z	PEAKING COIL	22μH
	L1606-07	QQL01BK-5R6Z	PEAKING COIL	5.6μH
	L1701	QQL01BK-331Z	PEAKING COIL	330μH
	L1702	QQL01BK-3R9Z	PEAKING COIL	3.9μH
	L1752	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1753	QQL01BK-4R7Z	PEAKING COIL	4.7μH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D1201-11	MA3130/H/-X	ZENER DIODE	
	D1214-15	MA3130/H/-X	ZENER DIODE	
	D1402	BYD33D-T3	SI.DIODE	
	D1403-04	MA3330/L/-X	ZENER DIODE	
	D1461	MA111-X	SI.DIODE	
	D1462	MA3220/M/-X	ZENER DIODE	
	D1502	MA111-X	SI.DIODE	
	D1504	MA111-X	SI.DIODE	
	D1601	MA3062/M/-X	ZENER DIODE	
	D1653-54	MA3330/L/-X	ZENER DIODE	
	D1657	MA111-X	SI.DIODE	
	D1658	MA153A-X	SI.DIODE	
	D1660	MA111-X	SI.DIODE	
	D1661	MA153A-X	SI.DIODE	
	D1664	MA111-X	SI.DIODE	
	D1669	MA152WK-X	SI.DIODE	
	D1670	MA111-X	SI.DIODE	
	D1701-02	MA111-X	SI.DIODE	
	D1704	1SS244-T2	SI.DIODE	
	D1708	MA111-X	SI.DIODE	
	D1709	MA3068/M/-X	ZENER DIODE	
	D1712	MA111-X	SI.DIODE	
	D1753	MA111-X	SI.DIODE	
	D1754	MA3062/M/-X	ZENER DIODE	
	D1771-76	MA3056/M/-X	ZENER DIODE	
	D1901	MA3130/H/-X	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q1101-04	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1111	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1112	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1113-14	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1121	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1122	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1123-24	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1131-32	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1201-02	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1203	2SC1815/YG/-T	SI.TRANSISTOR	
	Q1204-05	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1206-07	DTC323TK-X	DIGI.TRANSISTOR	
	Q1208	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1209	2SA1015/YG/-T	SI.TRANSISTOR	
	Q1211	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1215-16	DTC323TK-X	DIGI.TRANSISTOR	
	Q1217	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1303-04	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1305	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1345	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1346	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1351	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1381-83	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1461-62	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1601	DTC323TK-X	DIGI.TRANSISTOR	
	Q1602	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1603	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1651	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1652-53	DTC323TK-X	DIGI.TRANSISTOR	
	Q1657	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1659-60	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1701-08	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1709	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1752	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1901	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1902	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC1101	TC9090AN	I.C.(DIGI-MOS)	
	IC1301	CXA1545AS	I.C.(MONO-ANA)	
	IC1303	TDA9143/N3	I.C.(MONO-ANA)	
	IC1304	TDA4665/V5	I.C.(MONO-ANA)	
	IC1305	LA7016	I.C.(MONO-ANA)	
	IC1401	LA7841	I.C.(MONO-ANA)	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC1551	LA6515	I.C.(MONO-ANA)	
	IC1601	MSP34100-PP-C5	I.C.(DIGI-OTHER)	
	IC1602	BA4558F-X	I.C(MONO-ANA)	
	IC1651	TA8246AH	I.C.(HYBRID)	
	IC1701	M37280MK-105SP	I C	
	IC1702	L78LR05E-MA	I C	
	IC1703	AT24C16-32WFX1	I.C.	(SERVICE)
	IC1754	SDA5275S	I.C.(MICRO-PROC)	
	IC1755	MSM514400D-60ZS	I.C.(D-RAM)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	CN1002	QGF1216C1-25	FFC CONNECTOR	
	CN1008	QGB2004P2-35	HQF PLUG	
	J1651	QNN0296-001	PIN JACK	
	K1001	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1009	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1101	QQR0621-002Z	BEADS CORE	
	K1401	QQR0621-002Z	BEADS CORE	
	K1701	QQR0621-002Z	BEADS CORE	
	LC1101	CE42142-222Z	EMI FILTER	
	LC1601	CE42142-103Z	EMI FILTER	
	TU1001	CEEK481-A04	TUNER	
	W1001-02	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	X1311	CE40749-001Z	CRYSTAL	
	X1312	CE40668-001Z	CRYSTAL	
	X1601	CE42546-001Z	CRYSTAL	
	X1701	CST8.00MTW	CER.RESONATOR	
	X1752	QAX0351-001Z	CRYSTAL	
	Y1301-06	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1312-13	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1315	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1328	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1401	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1502-05	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1653	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1657-58	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1661-62	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1701-03	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1750-53	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

POWER & DEF PW BOARD ASS'Y (SMD-2006A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R2451	QRE141J-272Y	C R	2.7kΩ 1/4W J
	R2455	QRE141J-102Y	C R	1kΩ 1/4W J
	R2456	QRE141J-473Y	C R	47kΩ 1/4W J
	R2457	QRE141J-103Y	C R	10kΩ 1/4W J
	R2458	QRA14CF-1002Y	MF R	10kΩ 1/4W F
	R2459	QRE141J-391Y	C R	390Ω 1/4W J
	R2461	QRE141J-102Y	C R	1kΩ 1/4W J
	R2463	QRG029J-820	OM R	82 Ω 2W J
	R2464	QRX01GJ-2R2	MF R	2.2Ω 1W J
	R2465	QRE141J-103Y	C R	10kΩ 1/4W J
	R2468	QRE141J-393Y	C R	39kΩ 1/4W J
	R2470	QRA14CF-1132Y	MF R	11.3kΩ 1/4W F
	R2501	QRE141J-471Y	C R	470Ω 1/4W J
	R2502	QRE141J-123Y	C R	12kΩ 1/4W J
	R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R2504	QRG039J-272	OM R	2.7kΩ 3W J
	R2505	QRG039J-332	OM R	3.3kΩ 3W J
	R2506	QRE121J-5R6Y	C R	5.6Ω 1/2W J
	R2507	QRC121K-152Z	COMP.R	1.5kΩ 1/2W K
	R2509	QRE141J-563Y	C R	56kΩ 1/4W J
	R2510	QRE141J-333Y	C R	33kΩ 1/4W J
	R2511	QRE141J-102Y	C R	1kΩ 1/4W J
	R2522	QRE121J-471Y	C R	470Ω 1/2W J
⚠	R2551	QRZ9017-4R7	F R	4.7Ω 1/4W J
⚠	R2552	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J
⚠	R2553	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J
	R2554	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R2555	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R2557	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R2561	QRZ0056-103Z	COMP.R	10kΩ
	R2574	QRG029J-220	OM R	22 Ω 2W J
	R2575	QRE121J-123Y	C R	12kΩ 1/2W J
	R2581	QRF154K-4R7	UNF R	4.7Ω 15W K
	R2582	QRE141J-681Y	C R	680Ω 1/4W J
	R2583	QRE121J-682Y	C R	6.8kΩ 1/2W J
	R2584	QRE141J-183Y	C R	18kΩ 1/4W J
	R2585	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R2586	QRA14CF-7501Y	MF R	7.5kΩ 1/4W F
	R2587	QRA14CF-2201Y	MF R	2.2kΩ 1/4W F
	R2588	QRE141J-103Y	C R	10kΩ 1/4W J
	R2901	QRF104K-3R9	UNF R	3.9Ω 10W K
	R2902	QRE121J-331Y	C R	330Ω 1/2W J
	R2903-04	QRE121J-474Y	C R	470kΩ 1/2W J
	R2905	QRL039J-823	OM R	82kΩ 3W J
	R2906	QRG039J-683	OM R	68kΩ 3W J
⚠	R2907	QRZ9017-4R7	F R	4.7Ω 1/4W J
	R2908	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R2909	QRT029J-R39	MF R	0.39Ω 2W J
	R2910	QRM059J-R22	MP R	0.22Ω 5W J
	R2911	QRE121J-681Y	C R	680Ω 1/2W J
	R2912	QRE121J-332Y	C R	3.3kΩ 1/2W J
	R2913	QRL039J-823	OM R	82kΩ 3W J
	R2923	QRE121J-102Y	C R	1kΩ 1/2W J
	R2951	QRF074J-102	UNF R	1kΩ 7W J
	R2952	QRG029J-103	OM R	10kΩ 2W J
	R2953	QRG029J-183	OM R	18kΩ 2W J
	R2954	QRE141J-330Y	C R	33Ω 1/4W J
	R2955	QRE141J-681Y	C R	680Ω 1/4W J
	R2956	QRX029J-R47	MF R	0.47 Ω 2W J
	R2957	QRG029J-100	OM R	10 Ω 2W J
	R2960	QRE141J-153Y	C R	15kΩ 1/4W J
	R2961	QRE141J-182Y	C R	1.8kΩ 1/4W J
	R2962	QRE141J-153Y	C R	15kΩ 1/4W J
	R2963	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2968	QRE141J-103Y	C R	10kΩ 1/4W J
	R2969	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2970	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R2971	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2983	QRE141J-122Y	C R	1.2kΩ 1/4W J
	R2984	QRE141J-104Y	C R	100kΩ 1/4W J
	R2985-86	QRE141J-103Y	C R	10kΩ 1/4W J
	R2987	QRE121J-680Y	C R	68Ω 1/2W J
⚠	R2991	QRZ0057-825	C R	8.2MΩ 1W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C2451	QCS31HJ-470Z	C CAP.	47pF 50V J
	C2452	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
	C2453	QETN1EM-476Z	E CAP.	47μF 25V M
	C2454	QETN1HM-106Z	E CAP.	10μF 50V M
	C2455	QFLC1HJ-102Z	M CAP.	1000pF 50V J
	C2456	QFM72DJ-122Z	M CAP.	1200pF 200V J
	C2457	QFM72DJ-152Z	M CAP.	1500pF 200V J
	C2458	QEZ0472-106Z	E CAP.	10μF 250V M
	C2459	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C2460	QFP31HJ-272Z	PP CAP.	2700pF 50V J
	C2461	QFLC1HJ-182Z	M CAP.	1800pF 50V J
	C2501	QCB32HK-331Z	C CAP.	330pF 500V K
	C2502	QFM72DK-103	M CAP.	0.01μF 200V K
	C2503	QFV71HJ-224Z	MF CAP.	0.22μF 50V J
⚠	C2521	QFZ0122-112	MPP CAP.	1100pF1.8kVH ±3%
⚠	C2522	QFZ0200-113	MPP CAP.	0.011μF1.5kVH ±3%
	C2523	QFM72DK-393	M CAP.	0.039μF 200V K
⚠	C2524	QFP32GJ-273	PP CAP.	0.027μF 400V J
	C2525	QFZ0194-914	MPP CAP.	0.91μF 250V J
	C2526	QFZ0199-114	MPP CAP.	0.11μF 250V J
	C2527	QFZ0194-154	MPP CAP.	0.15μF 250V J
	C2528	QFZ0199-114	MPP CAP.	0.11μF 250V J
	C2529	QCB32HK-561Z	C CAP.	560pF 500V K
	C2530	QFZ0194-154	MPP CAP.	0.15μF 250V J
	C2532	QETM2CM-227	E CAP.	220μF 160V M
	C2551	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2552	QETN1CM-108Z	E CAP.	1000μF 16V M
	C2553	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2554	QETN1CM-108Z	E CAP.	1000μF 16V M
	C2555	QENC1HM-225Z	BP E CAP.	2.2μF 50V M
	C2556	QCB32HK-102Z	C CAP.	1000pF 500V K
	C2557	QETN2EM-106Z	E CAP.	10μF 250V M
	C2565	QFLC2AJ-273Z	M CAP.	0.027μF 100V J
	C2581	QETN1CM-107Z	E CAP.	100μF 16V M
	C2582	QETN1EM-476Z	E CAP.	47μF 25V M
	C2583	QETN2AM-106Z	E CAP.	10μF 100V M
	C2584	QETN1AM-227Z	E CAP.	220μF 10V M
	C2585	QFZ0194-534	MPP CAP.	0.53μF 250V J
⚠	C2901	QFZ9040-473	MF CAP.	0.047μFAC275V M
⚠	C2902	QCZ9054-472	C CAP.	4700pFAC250V Z
⚠	C2903	QCZ9054-472	C CAP.	4700pFAC250V Z
⚠	C2904	QCZ9054-472	C CAP.	4700pFAC250V Z
	C2905	QEZ0199-227	E CAP.	220μF 400V M
	C2906	QCB32HK-103	C CAP.	0.01μF 500V K
	C2907	QCZ0122-391	C CAP.	390pF 2kV K
	C2908	QETN1HM-476Z	E CAP.	47μF 50V M
	C2909	QCB31HK-182Z	C CAP.	1800pF 50V K
	C2910	QCZ0122-561	C CAP.	560pF 2kV K
	C2912	QCB31HK-561Z	C CAP.	560pF 50V K
	C2921	QETN1EM-227Z	E CAP.	220μF 25V M
	C2922-23	QETN1HM-106Z	E CAP.	10μF 50V M
	C2951	QEZ0203-227	E CAP.	220μF 160V M
	C2952	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2953-54	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2955	QEHR1CM-477Z	E CAP.	470μF 16V M
	C2956	QEHQ1VM-228	E CAP.	2200μF 35V M
	C2959-60	QCB32HK-102Z	C CAP.	1000pF 500V K
	C2966	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
	C2967	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2968	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C2970	QEHR1CM-227Z	E CAP.	220μF 16V M
	C2972-73	QEHR1AM-477Z	E CAP.	470μF 10V M
	C2974-75	QEZ0256-128	E CAP.	1200μF 10V M
	C2976	QETN1AM-227Z	E CAP.	220μF 10V M
	C2977	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
	C2978	QCZ0122-471	C CAP.	470pF 2kV K
⚠	C2991	QCZ9079-332	C CAP.	3300pFAC250V K
⚠	C2992	QCZ9079-471	C CAP.	470pFAC250V K

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T2501	QQR1111-001	DRIVE TRANSF.	
	T2521	QQR0706-001	PINC.TRANSF.	
⚠	T2551	QQH0054-002-I2	HVT	(SERVICE)
	T2561	QQR1096-001	DEF TRANSF.	
⚠	T2901	CETS129-001J4	SW TRANSF.	
⚠	T2921	QQT0147-001	POWER TRANSF.	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L2451	QQL43AJ-332	CHOKE COIL	
	L2452	QQLZ020-801	CHOKE COIL	
	L2521	QQLZ025-180	CHOKE COIL	
	L2522	QQR0961-001	LIN COIL	
	L2551	QQLZ026-540	HEATER CHOKE	
	L2561	QQL43AJ-222	CHOKE COIL	2200μH
	L2901-02	QQL401K-100Z	CHOKE COIL	
⚠	L2903	QQR0646-003	CHOKE COIL	
	L2951	QQLZ026-460	HEATER CHOKE	
	L2952-54	QQL26AK-220Z	CHOKE COIL	
	L2955	QQR0518-001	CHOKE COIL	
	L2956	QQLZ026-460	HEATER CHOKE	
	L2957	QQL26AK-220Z	CHOKE COIL	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D2451	1SS133-T2	SI.DIODE	
	D2454	BYD33D-T3	SI.DIODE	
	D2501	1SS81-TS	SI.DIODE	
	D2502	1SS133-T2	SI.DIODE	
	D2503	MTZJ15B-T2	ZENER DIODE	
	D2521	V11CA-C1	SI.DIODE	
	D2522	FMV-3FU-F1	SI.DIODE	
	D2551-52	BYW95B-20	SI.DIODE	
	D2553	BYD33G-T3	SI.DIODE	
	D2554	MTZJ4.7A-T2	ZENER DIODE	
	D2555-56	BYD33G-T3	SI.DIODE	
	D2581	MTZJ15B-T2	ZENER DIODE	
	D2582	MTZJ7.5B-T2	ZENER DIODE	
	D2583	MTZJ7.5S-T2	ZENER DIODE	
	D2584	BYD33G-T3	SI.DIODE	
⚠	D2901	D3SB60	BRIDGE DIODE	
	D2902	BYD33M-T3	SI.DIODE	
⚠	D2903	BYD33D-T3	SI.DIODE	
	D2904	BYD33D-T3	SI.DIODE	
	D2905	1SS133-T2	SI.DIODE	
	D2907	MTZJ15B-T2	ZENER DIODE	
	D2921-24	1N4003-T2	SI.DIODE	
	D2925	MTZJ10B-T2	ZENER DIODE	
	D2951	RU4B-F1	SI.DIODE	
	D2953	FMX-G12S	SI.DIODE	
	D2954	BYW95B-20	SI.DIODE	
	D2955	SF6L20U	SI.DIODE	
	D2958	BYD33M-T3	SI.DIODE	
	D2959	RK44-LFT4	SI.DIODE	
	D2960	MTZJ33B-T2	ZENER DIODE	
	D2961-62	1SS133-T2	SI.DIODE	
	D2964-66	1SS133-T2	SI.DIODE	
	D2981-82	1SS133-T2	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q2452	2SK2459N-F54	F.E.T.	
	Q2453	2SC1815/YG/-T	SI.TRANSISTOR	
	Q2501	BSN304-T	F.E.T.	
	Q2502	2SC1815/YG/-T	SI.TRANSISTOR	
⚠	Q2521	2SC5552-RL	SI.TRANSISTOR	H.OUT
	Q2581	2SA949/Y/Z1-T	SI.TRANSISTOR	
	Q2582	DTC144ESA-T	DIGI.TRANSISTOR	
	Q2583	2SC1815/YG/-T	SI.TRANSISTOR	
	Q2921	2SC2655/Y/-T	SI.TRANSISTOR	
	Q2981-82	2SC1815/YG/-T	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC2901	STR-F6668B	I C	
	IC2951	SE140N	I.C.(HYBRID)	
	IC2952	BA12T	I.C.(MONO-ANA)	
	IC2953	SI-8050S	I.C.(HYBRID)	
	IC2954	BA033T	I.C.(MONO-ANA)	
	IC2955	UPC2409AHF	I.C.(MONO-ANA)	
	IC2956	BA08T	I C	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
⚠	CP2953	ICP-N75-Y	I.C.PROTECT	
	K2521	CE41832-001	LEAD CORE	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	K2523-25	CE41832-001	LEAD CORE	
	K2901-02	CE42050-001Z	CORE	
	K2951	QQR0679-001	FERRITE BEADS	
	K2952	QQR0621-002Z	BEADS CORE	
	K2953	QQR0716-001Z	LEAD CORE	
⚠	PC2901	TLP721F(D4-GR)	I.C.(PH.COUPLER)	
⚠	RY2981	QSK0086-001	RELAY	
⚠	TH2901	QAD0120-9R0	P THERMISTOR	

CRT SOCKET PW BOARD ASS'Y (SMD-3005A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R3101	QRE141J-272Y	C R	2.7kΩ 1/4W J
	R3102	QRE141J-153Y	C R	15kΩ 1/4W J
	R3103	QRE141J-152Y	C R	1.5kΩ 1/4W J
	R3104	QRE141J-680Y	C R	68Ω 1/4W J
	R3105	QRE141J-221Y	C R	220Ω 1/4W J
⚠	R3106	QRJ146J-100X	C R	10Ω 1/4W J
	R3107-08	QRE141J-470Y	C R	47Ω 1/4W J
⚠	R3109	QRZ9021-561	FUSI.RESISTOR	560 Ω 1W J
	R3110	QRE141J-122Y	C R	1.2kΩ 1/4W J
	R3111	QRE141J-390Y	C R	39Ω 1/4W J
	R3112	QRE141J-2R7Y	C R	2.7Ω 1/4W J
	R3113-14	QRE141J-563Y	C R	56kΩ 1/4W J
	R3115	QRE141J-122Y	C R	1.2kΩ 1/4W J
	R3116	QRE141J-2R7Y	C R	2.7Ω 1/4W J
	R3117	QRE141J-390Y	C R	39Ω 1/4W J
	R3118	QRE141J-121Y	C R	120Ω 1/4W J
	R3119	QRL029J-391	OM R	390Ω 2W J
	R3130	QRE141J-101Y	C R	100Ω 1/4W J
	R3204-06	QRE141J-152Y	C R	1.5kΩ 1/4W J
	R3207	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R3208	QRE141J-123Y	C R	12kΩ 1/4W J
	R3211	QRE141J-334Y	C R	330kΩ 1/4W J
	R3223-25	QRE141J-182Y	C R	1.8kΩ 1/4W J
	R3227	QRE141J-272Y	C R	2.7kΩ 1/4W J
	R3228	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R3229-31	QRG01GJ-823	OM R	82kΩ 1W J
	R3232-34	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R3235-37	QRC121K-152Z	COMP.R	1.5kΩ 1/2W K
	R3239	QRZ0107-474Z	C•R	470kΩ 1/2W K
	R3241	QRZ0107-105Z	C R	1MΩ 1/2W K
	R3301-02	QRE121J-474Y	C R	470kΩ 1/2W J
	R3303-04	QRE141J-223Y	C R	22kΩ 1/4W J
	R3305	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R3306	QRE141J-392Y	C R	3.9kΩ 1/4W J
	R3307	QRE141J-101Y	C R	100Ω 1/4W J
	R3308	QRE141J-471Y	C R	470Ω 1/4W J
	R3309	QRE141J-120Y	C R	12Ω 1/4W J
	R3310	QRE141J-331Y	C R	330Ω 1/4W J
	R3311-12	QRE141J-472Y	C R	4.7kΩ 1/4W J
	R3313	QRE141J-102Y	C R	1kΩ 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C3101	QETN1HM-106Z	E CAP.	10μF 50V M
	C3103	QETN1HM-335Z	E CAP.	3.3μF 50V M
	C3104	QETN1CM-107Z	E CAP.	100μF 16V M
	C3105	QCS31HJ-101Z	C CAP.	100pF 50V J
	C3106	QCS31HJ-181Z	C CAP.	180pF 50V J
	C3107	*QETN2CM-106Z*	*E CAP.*	*10μF 160V M*
	C3108-09	QCB32HK-472Z	C CAP.	4700pF 500V K
	C3110	QETN2CM-106Z	E CAP.	10μF 160V M
	C3111-12	QETN1AM-107Z	E CAP.	100μF 10V M
	C3113	QETN1AM-337Z	E CAP.	330μF 10V M
	C3114	QCS32HJ-470Z	C CAP.	47pF 500V J
	C3115	QCS31HJ-5R0Z	C CAP.	5.0pF 50V J
	C3118	QENC1HM-106Z	BP E CAP.	10μF 50V M
	C3201-03	QCS31HJ-8R0Z	C CAP.	8.0pF 50V J
	C3204-06	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C3207-09	QETN1EM-476Z	E CAP.	47μF 25V M
	C3210-12	QFK62EK-104Z	MM CAP.	0.1μF 250V K
	C3213-15	QCS31HJ-181Z	C CAP.	180pF 50V J
	C3216	QETN1CM-107Z	E CAP.	100μF 16V M
	C3218	QETM2EM-336	E CAP.	33μF 250V M
	C3219	QFZ0097-223	M M CAP.	0.022μF 1250V K
	C3221	QETN2EM-106Z	E CAP.	10μF 250V M
	C3301	QETN1CM-107Z	E CAP.	100μF 16V M
	C3302	QFLC1HJ-103Z	M CAP.	0.01μF 50V J

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L3201-03	QQL01BK-4R7Z	PEAKING COIL	4.7μH
	L3301	QQL26AJ-102Z	PEAKING COIL	1000μH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D3101-02	RH1S-T3	SI.DIODE	
	D3151	1SS133-T2	SI.DIODE	
	D3204-06	EU01N-T2	SI.DIODE	
	D3208-10	1SR124-400A-T2	SI.DIODE	
	D3301-03	1SS133-T2	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q3102-03	2SC3311A/QR/-T	SI.TRANSISTOR	
	Q3104	2SA1309A/QR/-T	SI.TRANSISTOR	
	Q3105	2SA1837	SI.TRANSISTOR	
	Q3106	2SC4793	SI.TRANSISTOR	
	Q3301	2SA1015/YG/-T	SI.TRANSISTOR	
	Q3302	2SC2655/Y/-T	SI.TRANSISTOR	
	Q3303	2SA1015/YG/-T	SI.TRANSISTOR	
	Q3304-05	2SC3311A/QR/-T	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC3201-03	TDA6111Q	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	K3101-04	CE41492-001Z	CHOKE COIL	
	K3105	QQR0621-002Z	BEADS CORE	
⚠	SK3001	CE42670-001	C.R.T.SOCKET	

FRONT CONTROL PW BOARD ASS'Y (SMD-8005A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R8001-02	QRE121J-271Y	C R	270Ω 1/2W J
	R8003	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R8004	QRE141J-472Y	C R	4.7kΩ 1/4W J
	R8005	QRE141J-561Y	C R	560Ω 1/4W J
	R8008	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R8009	QRE141J-105Y	C R	1MΩ 1/4W J
	R8010	QRE141J-183Y	C R	18kΩ 1/4W J
	R8011	QRE141J-123Y	C R	12kΩ 1/4W J
	R8012	QRE141J-273Y	C R	27kΩ 1/4W J
	R8013	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R8014	QRE141J-123Y	C R	12kΩ 1/4W J
	R8020	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R8021-22	QRE141J-102Y	C R	1kΩ 1/4W J
	R8035	QRE141J-391Y	C R	390Ω 1/4W J
	R8036-38	QRE141J-561Y	C R	560Ω 1/4W J
	R8039	QRE141J-821Y	C R	820Ω 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C8001-02	QCB31HK-103Z	C CAP.	0.01μF 50V K
	C8003	QETN1HM-106Z	E CAP.	10μF 50V M
	C8004	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C8005	QETN1EM-476Z	E CAP.	47μF 25V M
	C8010-11	QCB31HK-472Z	C CAP.	4700pF 50V K
	C8019	QETN1CM-107Z	E CAP.	100μF 16V M
	C8021	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C8022	QETN1EM-476Z	E CAP.	47μF 25V M
	C8023	QCZ0120-104Z	C CAP.	0.1μF 25V Z
⚠	C8901	QFZ9040-474	M.F.CAPACITOR	0.47μFAC275V M

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L8001	QQR0716-001Z	LEAD CORE	
	L8002-03	QQL211K-5R6Y	PEAKING COIL	5.6μH
	L8010-11	QQL211K-270Y	PEAKING COIL	27μH
	L8012	QQR0716-001Z	LEAD CORE	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D8007	P1241-04	C.D.S.	
	D8008	1SS133-T2	SI.DIODE	
	D8009	SLR-342MG-T16	L.E.D.(GRN)	
	D8010	SPR-39MVWF	L.E.D.	
	D8011	1SS133-T2	SI.DIODE	
	D8012	SLR-342DU-T16	L.E.D.(ORG)	
	D8013	SLR-342YY-T16	L.E.D.(YLW)	
	D8014	MTZJ6.8A-T2	ZENER DIODE	
	D8018	MTZJ5.1B-T2	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q8001	2SA1015/YG/-T	SI.TRANSISTOR	
	Q8002	DTC144ESA-T	DIGI.TRANSISTOR	
	Q8003-04	DTA144ESA-T	DIGI.TRANSISTOR	
	Q8005-07	DTC144ESA-T	DIGI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC8001	GP1U281Q	IFR DETECT UNIT	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
		CEMG002-001Z	FUSE CLIP	
		LC30596-001B-C	LED HOLDER	
		CM35921-005-H	CDS HOLDER	
	CN8002	QGF1216C1-25	FFC CONNECTOR	
⚠	F8901	QMF51D2-3R15J1	FUSE	3.15A
	J8001	QMS3004-C01	HEADPHONE JACK	
	J8003	QND0073-001	S JACK	
	J8004	CEMN011-001	JACK	
	J8005	CEMN011-002	JACK	
	J8006	CEMN011-003	JACK	
⚠	LF8901	QQR1095-001	LINE FILTER	
⚠	LF8902	QQR1095-001	LINE FILTER	
	S8001	QSW0619-003Z	PUSH SWITCH	MENU
	S8002	QSW0619-003Z	PUSH SWITCH	CH DOWN
	S8003	QSW0619-003Z	PUSH SWITCH	CH UP
⚠	S8901	QSW0824-001	PUSH SWITCH	MAIN POWER

BBE PW BOARD ASS'Y (SMD0A001A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0101-02	QRE141J-223Y	C R	22kΩ 1/4W J
	R0106-07	QRE141J-223Y	C R	22kΩ 1/4W J
	R0108-09	QRE141J-103Y	C R	10kΩ 1/4W J
	R0113	QRE141J-103Y	C R	10kΩ 1/4W J
	R0116	QRE141J-273Y	C R	27kΩ 1/4W J
	R0117	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R0118	QRE141J-273Y	C R	27kΩ 1/4W J
	R0119	QRE141J-822Y	C R	8.2kΩ 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0101	QFLC1HJ-332Z	M CAP.	3300pF 50V J
	C0102	QFLC1HJ-333Z	M CAP.	0.033μF 50V J
	C0103	QENC1HM-475Z	BP E CAP.	4.7μF 50V M
	C0104	QETN1HM-106Z	E CAP.	10μF 50V M
	C0105	QETN1EM-476Z	E CAP.	47μF 25V M
	C0107	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
	C0108	QFLC1HJ-332Z	M CAP.	3300pF 50V J
	C0109	QFLC1HJ-333Z	M CAP.	0.033μF 50V J
	C0110	QENC1HM-475Z	BP E CAP.	4.7μF 50V M
	C0112	QETN1HM-476Z	E CAP.	47μF 50V M
	C0114-15	QETN1HM-106Z	E CAP.	10μF 50V M

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0101	NJM2150AD	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	CN0001	QGB3501K1-40	PLUG	

IF PW BOARD ASS'Y (SMD0F003A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0020	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0021	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0022	NRSA02J-331X	MG R	330Ω 1/10W J
	R0023	NRSA02J-680X	MG R	68Ω 1/10W J
	R0024	NRSA02J-330X	MG R	33Ω 1/10W J
	R0025	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0026	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0030-31	NRSA02J-150X	MG R	15Ω 1/10W J
	R0050-51	NRSA02J-121X	MG R	120Ω 1/10W J
	R0052-53	NRSA02J-561X	MG R	560Ω 1/10W J
	R0057	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0058	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0059	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0060-61	NRSA02J-471X	MG R	470Ω 1/10W J
	R0062	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0063	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0064	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0065	NRSA02J-470X	MG R	47Ω 1/10W J
	R0070-71	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0080-81	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0082	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0101	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0102	NRSA02J-471X	MG R	470Ω 1/10W J
	R0103	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0104	NRSA02J-121X	MG R	120Ω 1/10W J
	R0105	NRSA02J-151X	MG R	150Ω 1/10W J
	R0106	NRSA02J-181X	MG R	180Ω 1/10W J
	R0107	NRSA02J-221X	MG R	220Ω 1/10W J
	R0108	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0109	NRSA02J-181X	MG R	180Ω 1/10W J
	R0111-12	NRSA02J-151X	MG R	150Ω 1/10W J
	R0113	NRSA02J-391X	MG R	390Ω 1/10W J
	R0114	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0116	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0117	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0120	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0122-24	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0140	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J
	R0142	NRSA02J-391X	MG R	390Ω 1/10W J
	R0143	NRSA02J-750X	MG R	75Ω 1/10W J
	R0144	NRSA02J-474X	MG R	470kΩ 1/10W J
	R0145	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0146	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0601	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0602	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0603	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0604	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0605-06	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R0607-08	NRSA02J-562X	MG R	5.6kΩ 1/10W J
⚠	R0609	QRZ9017-470	F R	47Ω 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0020-25	NCB21HK-472X	C CAP.	4700pF 50V K
	C0026	NCB21HK-472X	C CAP.	4700pF 50V K
	C0031-32	NCB21HK-472X	C CAP.	4700pF 50V K
	C0040	NCB21HK-682X	C CAP.	6800pF 50V K
	C0041	QETN1CM-107Z	E CAP.	100µF 16V M
	C0042	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0043	QETN1CM-107Z	E CAP.	100µF 16V M
	C0044	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0046	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0047	QETN1CM-227Z	E CAP.	220µF 16V M
	C0050	QETN1HM-105Z	E CAP.	1µF 50V M
	C0051	NCB21HK-472X	C CAP.	4700pF 50V K
	C0053	NDC21HJ-6R0X	C CAP.	6.0pF 50V J
	C0054	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0055	QETN1CM-107Z	E CAP.	100µF 16V M
	C0056	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C0057	NDC21HJ-102X	C CAP.	1000pF 50V J

⚠	Symbol No.	Part No.	Part Name	Description
	C0058	NCB21HK-472X	C CAP.	4700pF 50V K
	C0060	NDC21HJ-120X	C CAP.	12pF 50V J
	C0061	NDC21HJ-7R0X	C CAP.	7.0pF 50V J
	C0062	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C0063	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0064	NCB21HK-472X	C CAP.	4700pF 50V K
	C0065	QETN1HM-105Z	E CAP.	1µF 50V M
	C0067	NDC21HJ-120X	C CAP.	12pF 50V J
	C0069-70	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0071	QETN1HM-336Z	E CAP.	33µF 50V M
	C0080-81	NCB21HK-472X	C CAP.	4700pF 50V K
	C0101	QETN1CM-476Z	E CAP.	47µF 16V M
	C0102	NDC21HJ-221X	C CAP.	220pF 50V J
	C0103-04	NDC21HJ-121X	C CAP.	120pF 50V J
	C0105	NCB21HK-103X	C CAP.	0.01µF 50V K
	C0140	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C0141	NDC21HJ-561X	C CAP.	560pF 50V J
	C0142	QETN1HM-105Z	E CAP.	1µF 50V M
	C0143	QFLC1HJ-683Z	M CAP.	0.068µF 50V J
	C0144	QETN1HM-335Z	E CAP.	3.3µF 50V M
	C0145	NCB21HK-222X	C CAP.	2200pF 50V K
	C0601	QFLC1HJ-183Z	M CAP.	0.018µF 50V J
	C0602	QETN1CM-476Z	E CAP.	47µF 16V M
	C0603	QETN1HM-106Z	E CAP.	10µF 50V M
	C0604	QETN1HM-105Z	E CAP.	1µF 50V M
	C0605	QETN1CM-477Z	E CAP.	470µF 16V M
	C0606	NCB21HK-103X	C CAP.	0.01µF 50V K

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T0020	QQR0626-001	I.F.TRANSF.	
	T0050	CELT001-307	C.WAVE TRANSF.	
	T0051	CELT001-306	C.WAVE TRANSF.	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0020	QQLZ014-R47	PEAKING COIL	0.47µH
	L0021	NQL011K-1R5X	COIL	1.5µH
	L0040	NQL024J-120X	COIL	12µH
	L0042	NQL024J-330X	COIL	33µH
	L0050-53	NQL011K-8R2X	COIL	8.2µH
	L0054	NQL024J-330X	COIL	33µH
	L0070	NQL011K-5R6X	COIL	5.6µH
	L0101	NQL011K-6R8X	COIL	6.8µH
	L0102-03	NQL011K-100X	COIL	10µH
	L0104	NQL011K-8R2X	COIL	8.2µH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0021	DAN235K-X	CHIP DIODE	
	D0050-51	DAN235K-X	CHIP DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0012	2SC5083/L-P/-T	SI.TRANSISTOR	
	Q0080	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0101	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0102	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0103	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0104	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0106	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0107	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0108	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0109-11	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0120	DTC124EKA-X	DIGI.TRANSISTOR	
	Q0122-26	DTC144EKA-X	DIGI.TRANSISTOR	
	Q0601-02	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0010	TA8865BN	I.C.(MONO-ANA)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	CF0010-11	QAX0619-001	C TRAP	
	CF0100	TPS5.5MW	CERAMIC FILTER	
	CF0140	CSBS03F30-T2	CER.RESONATOR	
	SF0010	QAX0531-001	SAW FILTER	
	SF0011	QAX0621-001	SAW FILTER	
	TC0052	QAT7004-100	TRIM.CAP.	10pF 100V
	TC0059	QAT7004-100	TRIM.CAP.	10pF 100V
	W0008	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0013	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0015	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0025-26	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0028-29	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0031-32	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0036	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0073-75	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	W0094-99	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y0002	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

AV TERMINAL PW BOARD ASS'Y (SMD0J003A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0104	QRE141J-750Y	C R	75Ω 1/4W J
	R0106	QRE141J-750Y	C R	75Ω 1/4W J
	R0108	QRE141J-750Y	C R	75Ω 1/4W J
	R0112	QRE141J-750Y	C R	75Ω 1/4W J
	R0204	QRE141J-750Y	C R	75Ω 1/4W J
	R0304	QRE141J-750Y	C R	75Ω 1/4W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0102-04	QEKC1CM-106Z	E CAP.	10µF 16V M
	C0105-08	QCB31HK-472Z	C CAP.	4700pF 50V K
	C0109	QETN1AM-108Z	E CAP.	1000µF 10V M
	C0202	QCB31HK-103Z	C CAP.	0.01µF 50V K
	C0203-06	QCB31HK-472Z	C CAP.	4700pF 50V K
	C0209	QETN1AM-108Z	E CAP.	1000µF 10V M
	C0302	QCB31HK-103Z	C CAP.	0.01µF 50V K
	C0305-06	QCB31HK-472Z	C CAP.	4700pF 50V K

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L0101-04	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0105	QQR0716-001Z	LEAD CORE	
	L0201-04	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0205	QQR0716-001Z	LEAD CORE	
	L0301-02	QQL211K-5R6Y	PEAKING COIL	5.6µH
	L0303	QQR0716-001Z	LEAD CORE	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0101-05	MTZJ13B-T2	ZENER DIODE	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	CN0008	CHA401N-35R-J	HQF CONNECTOR	
	J0001-03	CE40529-006	SCART CONNECTOR	

SUB MICON & AUTO PANORAMA PW BOARD ASS'Y (SMD0W003A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0001	NRSA02J-101X	MG R	100Ω 1/10W J
	R0002	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0003	NRSA02J-393X	MG R	39kΩ 1/10W J
	R0004	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0005-07	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0008	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0009	NRSA02J-331X	MG R	330Ω 1/10W J
	R0010	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0011	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0012	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0020-26	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0045	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0051	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0054	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0060	NRSA02J-823X	MG R	82kΩ 1/10W J
	R0751	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0752-57	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0758	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0759-60	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0761-66	NRSA02J-822X	MG R	8.2kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0001	NEN51AM-336X	CHIP AL BP E CAP	33µF 10V M
	C0002	NDC21HJ-221X	C CAP.	220pF 50V J
	C0003	NDC21HJ-220X	C CAP.	22pF 50V J
	C0004-05	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0006	NEH71CM-476X	E CAP.	47µF 16V M
	C0009	NEH71CM-106X	E CAP.	10µF 16V M
	C0010-11	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0751	NEH71CM-476X	E CAP.	47µF 16V M
	C0752-57	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C0758	NCB21HK-103X	C CAP.	0.01µF 50V K

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D0005	MA3051/M/-X	ZENER DIODE	
	D0751	MA111-X	SI.DIODE	
	D0752-53	MA3062/M/-X	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q0001-02	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q0003	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0004-05	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q0751-52	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC0001	JCC5035	I C	
	IC0002	MN1382/Q/-X	I.C.(MONO-ANA)	
	IC0751	SAB-C161RI-W	I.C.(DIGI-MOS)	
	IC0752	MX23C4000PC10M1	EPROM(4MBIT)	
	IC0753	AT24C16N-10SC-X	I.C.(EP-ROM)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
		CEMS007-032	IC SOCKET	
	X0001	CE42564-001Y	CER.RESONATOR	
	X0751	QAX0534-001	C RESONATOR	

100Hz PW BOARD ASS'Y (SMD0Z005A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R0001-02	NRSA02J-101X	MG R	100Ω 1/10W J
	R0004	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0005	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0101	NRSA02J-101X	MG R	100Ω 1/10W J
	R0102	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0103	NRSA02J-331X	MG R	330Ω 1/10W J
	R0104	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0105	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0106	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0107	NRSA02J-331X	MG R	330Ω 1/10W J
	R0108	NRSA02J-181X	MG R	180Ω 1/10W J
	R0109-10	NRSA02J-101X	MG R	100Ω 1/10W J
	R0111	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0112	NRSA02J-101X	MG R	100Ω 1/10W J
	R0113	NRSA02J-471X	MG R	470Ω 1/10W J
	R0114	NRSA02J-221X	MG R	220Ω 1/10W J
	R0121	NRSA02J-101X	MG R	100Ω 1/10W J
	R0122	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0123	NRSA02J-331X	MG R	330Ω 1/10W J
	R0124	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0125	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0126	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0127	NRSA02J-271X	MG R	270Ω 1/10W J
	R0128	NRSA02J-181X	MG R	180Ω 1/10W J
	R0129	NRSA02J-101X	MG R	100Ω 1/10W J
	R0130	NRSA02J-330X	MG R	33Ω 1/10W J
	R0131	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0132	NRSA02J-101X	MG R	100Ω 1/10W J
	R0133	NRSA02J-471X	MG R	470Ω 1/10W J
	R0134	NRSA02J-221X	MG R	220Ω 1/10W J
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J
	R0142	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0143	NRSA02J-331X	MG R	330Ω 1/10W J
	R0144	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0145	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0146	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0147	NRSA02J-271X	MG R	270Ω 1/10W J
	R0148	NRSA02J-181X	MG R	180Ω 1/10W J
	R0149	NRSA02J-101X	MG R	100Ω 1/10W J
	R0150	NRSA02J-150X	MG R	15Ω 1/10W J
	R0151	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0152	NRSA02J-101X	MG R	100Ω 1/10W J
	R0153	NRSA02J-471X	MG R	470Ω 1/10W J
	R0154	NRSA02J-221X	MG R	220Ω 1/10W J
	R0155	NRSA02J-100X	MG R	10Ω 1/10W J
	R0156	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0157	NRSA02J-560X	MG R	56Ω 1/10W J
	R0158	NRSA02J-680X	MG R	68Ω 1/10W J
	R0159	NRSA02J-101X	MG R	100Ω 1/10W J
	R0160	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0161	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0162	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0163	NRSA02J-181X	MG R	180Ω 1/10W J
	R0164	NRSA02J-680X	MG R	68Ω 1/10W J
	R0165	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0171	NRSA02J-101X	MG R	100Ω 1/10W J
	R0172	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0173	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R0174	NRSA02J-560X	MG R	56Ω 1/10W J
	R0175	NRSA02J-105X	MG R	1MΩ 1/10W J
	R0176	NRSA02J-681X	MG R	680Ω 1/10W J
	R0177	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0178	NRSA02J-101X	MG R	100Ω 1/10W J
	R0179	NRSA02J-471X	MG R	470Ω 1/10W J
	R0180	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0181-82	NRSA02F-392X	MG R	3.9kΩ 1/10W F
	R0183-84	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0185	NRSA02F-392X	MG R	3.9kΩ 1/10W F
	R0186	NRSA02F-332X	MG R	3.3kΩ 1/10W F
	R0187	NRSA02J-101X	MG R	100Ω 1/10W J
	R0188	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0189	*NRSA02J-470X*	*MG R*	*47Ω 1/10W* J
	R0190	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0191	NRSA02J-221X	MG R	220Ω 1/10W J
	R0192	NRSA02J-220X	MG R	22Ω 1/10W J
	R0193	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0201-16	NRSA02J-101X	MG R	100Ω 1/10W J
	R0221-36	NRSA02J-101X	MG R	100Ω 1/10W J
	R0303-18	NRSA02J-101X	MG R	100Ω 1/10W J
	R0401	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0403	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0404	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0406	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0408	NRSA02J-561X	MG R	560Ω 1/10W J
	R0409	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0411	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0412	NRSA02J-561X	MG R	560Ω 1/10W J
	R0413	NRSA02J-101X	MG R	100Ω 1/10W J
	R0415	NRSA02J-151X	MG R	150Ω 1/10W J
	R0417	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0418	NRSA02J-220X	MG R	22Ω 1/10W J
	R0419	NRSA02J-101X	MG R	100Ω 1/10W J
	R0420	NRSA02J-471X	MG R	470Ω 1/10W J
	R0425	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0426	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0428	NRSA02F-562X	MG R	5.6kΩ 1/10W F
	R0429	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0431	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0432	NRSA02J-561X	MG R	560Ω 1/10W J
	R0433	NRSA02J-101X	MG R	100Ω 1/10W J
	R0435	NRSA02J-151X	MG R	150Ω 1/10W J
	R0437	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0438	NRSA02J-220X	MG R	22Ω 1/10W J
	R0439	NRSA02J-101X	MG R	100Ω 1/10W J
	R0440	NRSA02J-471X	MG R	470Ω 1/10W J
	R0441	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0442	NRSA02F-562X	MG R	5.6kΩ 1/10W F
	R0443	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0451	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0452	NRSA02J-561X	MG R	560Ω 1/10W J
	R0453	NRSA02J-101X	MG R	100Ω 1/10W J
	R0455	NRSA02J-151X	MG R	150Ω 1/10W J
	R0457	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0458	NRSA02J-220X	MG R	22Ω 1/10W J
	R0459	NRSA02J-101X	MG R	100Ω 1/10W J
	R0460	NRSA02J-471X	MG R	470Ω 1/10W J
	R0461	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0462	NRSA02F-5231X	MG R	5.23kΩ 1/10W F
	R0463	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0471	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0472	NRSA02J-391X	MG R	390Ω 1/10W J
	R0473	NRSA02J-101X	MG R	100Ω 1/10W J
	R0475	NRSA02J-330X	MG R	33Ω 1/10W J
	R0476	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0477	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0478	NRSA02J-220X	MG R	22Ω 1/10W J
	R0479	NRSA02J-101X	MG R	100Ω 1/10W J
	R0480	NRSA02J-221X	MG R	220Ω 1/10W J
	R0486	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0487	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0488	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0489	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0491-92	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0501	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0504	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0505	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0506	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0507	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0512	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0514-15	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0516	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0602-03	NRSA02J-680X	MG R	68Ω 1/10W J
	R0604	QRN143J-221X	C R	220Ω 1/4W J
	R0606	NRSA02J-680X	MG R	68Ω 1/10W J
	R0607-08	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0609	NRSA02J-100X	MG R	10Ω 1/10W J
	R0610	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0611	NRSA02J-100X	MG R	10Ω 1/10W J
	R0612-13	NRSA02J-560X	MG R	56Ω 1/10W J
	R0614	NRSA02J-100X	MG R	10Ω 1/10W J
	R0615	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0616	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0704	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0705-06	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0708	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0709	NRVA02D-822X	MF R	8.2kΩ 1/10W D
	R0714	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0715	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0716	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0717	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0718	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0719	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0720	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0721	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0723	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0724	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0726	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0727	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0731	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0733	NRSA02J-154X	MG R	150kΩ 1/10W J
	R0734	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0736	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0737	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0738	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0739	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0740	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0741	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0742	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0743	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0744	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0745	NRSA02J-563X	MG R	56kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C0001	NEH71CM-476X	E CAP.	47μF 16V M
	C0002	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0003	NEH71CM-476X	E CAP.	47μF 16V M
	C0004	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0005	NEH71CM-476X	E CAP.	47μF 16V M
	C0006	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0007	NEH71CM-476X	E CAP.	47μF 16V M
	C0008	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0009	NDC21HJ-121X	C CAP.	120pF 50V J
	C0011	NDC21HJ-270X	C CAP.	27pF 50V J
	C0102	NDC21HJ-121X	C CAP.	120pF 50V J
	C0103	NDC21HJ-680X	C CAP.	68pF 50V J
	C0104	NEN51EM-106X	CHIP AL BP E CAP	10μF 25V M
	C0105	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C0106	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0107	NDC21HJ-390X	C CAP.	39pF 50V J
	C0108	NEH71CM-476X	E CAP.	47μF 16V M
	C0109	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0110	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0111	NDC21HJ-181X	C CAP.	180pF 50V J
	C0112-14	NEH71CM-106X	E CAP.	10μF 16V M
	C0122	NDC21HJ-121X	C CAP.	120pF 50V J
	C0123	NDC21HJ-680X	C CAP.	68pF 50V J
	C0124	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0125	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C0126	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0142	NDC21HJ-121X	C CAP.	120pF 50V J
	C0143	NDC21HJ-680X	C CAP.	68pF 50V J
	C0144	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0145	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C0146	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0151	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0152	QETN0JM-228Z	E CAP.	2200μF 6.3V M
	C0153	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0154-55	NEH71HM-105X	E CAP.	1μF 50V M
	C0156-57	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0161-62	NEH71CM-106X	E CAP.	10μF 16V M
	C0163	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0164	NEH71CM-106X	E CAP.	10μF 16V M
	C0165-80	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0181-82	NDC21HJ-8R0X	C CAP.	8.0pF 50V J
	C0191	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0192	NEH71CM-106X	E CAP.	10μF 16V M
	C0193	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0194	NRSA02J-223X	MG R	22kΩ 1/10W J
	C0201-02	QETN0JM-477Z	E CAP.	470μF 6.3V M
	C0203-07	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0208-09	NDC21HJ-150X	C CAP.	15pF 50V J
	C0301-19	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0401	NEH71CM-106X	E CAP.	10μF 16V M
	C0402	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0403	NEH71CM-106X	E CAP.	10μF 16V M
	C0404	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0405-06	NDC21HJ-120X	C CAP.	12pF 50V J
	C0408-13	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0414	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0415	NEH71HM-105X	E CAP.	1μF 50V M
	C0416	NEH71CM-106X	E CAP.	10μF 16V M
	C0417	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0420	NEH71HM-105X	E CAP.	1μF 50V M
	C0422	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0424	NEH71HM-105X	E CAP.	1μF 50V M
	C0425	NEH71CM-476X	E CAP.	47μF 16V M
	C0426	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0432	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0434	NEH71HM-105X	E CAP.	1μF 50V M
	C0435	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0452	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0454	NEH71HM-105X	E CAP.	1μF 50V M
	C0455	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0472	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0474	NEH71HM-105X	E CAP.	1μF 50V M
	C0475-76	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0477	NDC21HJ-561X	C CAP.	560pF 50V J
	C0501	NCB21HK-333X	C CAP.	0.033μF 50V K
	C0504	NCB21HK-562X	C CAP.	5600pF 50V K
	C0505-06	NCB21HK-393X	C CAP.	0.039μF 50V K
	C0601	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0602	NEH71CM-476X	E CAP.	47μF 16V M
	C0603	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0605	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0606	NDC21HJ-681X	C CAP.	680pF 50V J
	C0701	NCB21HK-102X	C CAP.	1000pF 50V K
	C0706	NCB21EK-154X	C CAP.	0.15μF 25V K
	C0707	NCB21EK-104X	C CAP.	0.1μF 25V K
	C0708	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0709	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0710	NEH71CM-106X	E CAP.	10μF 16V M
	C0711	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0712	NEH71CM-106X	E CAP.	10μF 16V M
	C0713	NCB21HK-223X	C CAP.	0.022μF 50V K

COIL

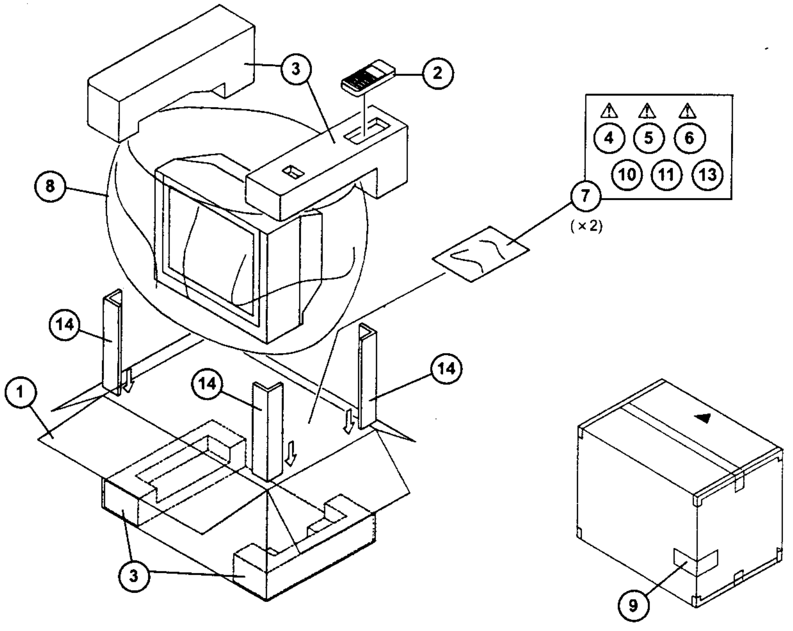
⚠	Symbol No.	Part No.	Part Name	Description
	L0001-05	NQL02BJ-4R7X	COIL	4.7μH
	L0101	NQL011K-3R3X	COIL	3.3μH
	L0121	NQL011K-3R3X	COIL	3.3μH
	L0141	NQL011K-3R3X	COIL	3.3μH
	L0161	NQL02BJ-100X	COIL	10μH
	L0162	NQL02BJ-3R3X	COIL	3.3μH
	L0163-64	NQL02BJ-100X	COIL	10μH
	L0201-02	NQL02BJ-100X	COIL	10μH
	L0301-02	NQL02BJ-4R7X	COIL	4.7μH

⚠	Symbol No.	Part No.	Part Name	Description
	DIODE			
	D0001	MA152WK-X	SI.DIODE	
	D0101-02	MA3068/M/-X	ZENER DIODE	
	D0103	MA3043-X	ZENER DIODE	
	D0104-05	MA111-X	SI.DIODE	
	D0106	MA3068/M/-X	ZENER DIODE	
	D0107	MA111-X	SI.DIODE	
	D0401	MA111-X	SI.DIODE	
	D0403-10	MA3068/M/-X	ZENER DIODE	
	D0411-13	MA111-X	SI.DIODE	
	D0414	MA3068/M/-X	ZENER DIODE	
	D0701	MA111-X	SI.DIODE	
	TRANSISTOR			
	Q0101	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0102	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0103	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0104	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0105	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0106-07	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0108	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0109-10	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0111	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0121	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0122	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0123	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0124	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0141	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0142	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0143	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0144	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0151-52	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0153	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0154	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0155	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0402	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0403-05	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0411	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0412-15	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0431	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0432-35	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0451	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0452-55	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0471	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0472-74	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0501	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0601	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0702	2SC2712/YG/-X	SI.TRANSISTOR	
	IC			
	IC0101	SDA9206	I C	
	IC0102	TC4W66F-X	I.C.(DIGI-MOS)	
	IC0201	SDA9400	I C	
	IC0301	JCC5043	I C	
	IC0401	DDP3310B/E4-W	I C	
	IC0601	SN74LV04ANS-X	I C	
	IC0602	TC74AC00F-X	I.C.(DIGI-MOS)	
	IC0603	MN1382/Q/-X	I.C.(MONO-ANA)	
	IC0701-02	NJM4556AM-XE	I C	

⚠	Symbol No.	Part No.	Part Name	Description
	OTHERS			
	LC0001-04	CE42482-103Y	EMI FILTER	
	LC0101-03	CE42482-470Y	EMI FILTER	
	LC0104	CE42126-101Y	EMI FILTER	
	LC0201	CE42482-103Y	EMI FILTER	
	LC0401-11	CE42126-220Y	EMI FILTER	
	LC0601	CE42126-101Y	EMI FILTER	
	LC0602	CE42482-470Y	EMI FILTER	
	LC0603	CE42126-101Y	EMI FILTER	
	X0101	QAX0549-001Z	X TAL	
	X0201	QAX0359-001Z	CRYSTAL	
	X0401	QAX0548-001Z	X TAL	
	Y0001-14	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y0017-28	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

AV-32WFX1EUG / AV-32WFX1EUS

PACKING



PACKING PARTS LIST

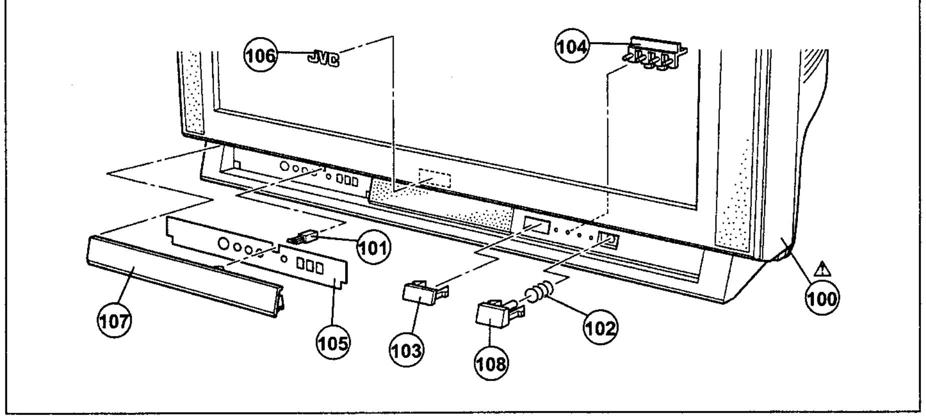
⚠	Ref.No.	Part No.	Part Name	Description
	AV-32WFX1EUG			
	1	AEM1002-065-E	PACKING CASE	
	2	RM-C50-1C	REMOCON UNIT	
	3	LC10384-002C-U	CUSHION ASSY	4pcs in 1set
⚠	4	LCT0616-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
⚠	5	LCT0617-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
⚠	6	LCT0618-001A-U	INST BOOK	For POL/CZE/HUN/ROM/BUL/RUS
	7	AEM3021-002-E	DOCUMENT BAGS	(×2)
	8	AEM1047-002-E	POLY BAG	
	9	AEM1039-069-E	EURO LABEL	
	10	BT-54013-1E	WARRANTY CARD	
	11	2832WFX1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)
	13	AEM1051-001-E	X-RAY CARD	
	14	AEM3119-001-E	CORNER POST	(×4)
	AV-32WFX1EUS			
	1	AEM1002-065-E	PACKING CASE	
	2	RM-C50-1C	REMOCON UNIT	
	3	LC10384-002C-U	CUSHION ASSY	4pcs in 1set
⚠	4	LCT0616-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
⚠	5	LCT0617-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
⚠	6	LCT0618-001A-U	INST BOOK	For POL/CZE/HUN/ROM/BUL/RUS
	7	AEM3021-002-E	DOCUMENT BAGS	(×2)
	8	AEM1047-002-E	POLY BAG	
	9	AEM1039-095-E	EURO LABEL	
	10	BT-54013-1E	WARRANTY CARD	
	11	2832WFX1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)
	13	AEM1051-001-E	X-RAY CARD	
	14	AEM3119-001-E	CORNER POST	(×4)

EXPLODED VIEW PARTS LIST (I)

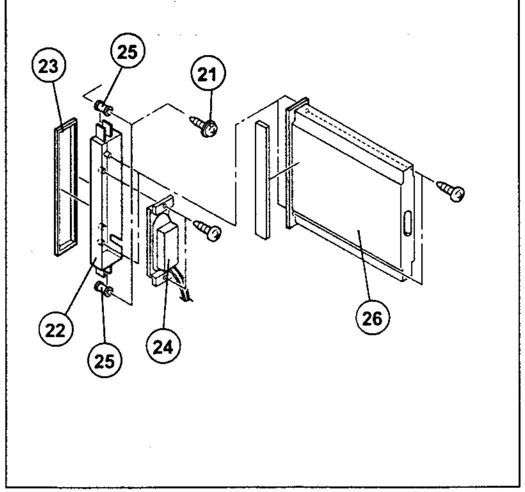
⚠ Ref. No.	Part No.	Part Name	Description
21	LC40506-001A	TAP SCREW	(×4)For HORN ADAPTER
22	LC10720-001B-U	SPEAKER ADAPTER	(×2)
23	AEM3029-A11-E	STICK SHEET	(×4)
24	QAS0046-001	SPEAKER	(×2)SP01, SP02
25	LC40226-001A	SPACER	(×4)
26	LC10721-001B-U	SPEAKER BOX	(×2)
⚠ 100	LC10662-001C-U	FRONT CABI ASSY	Inc. No. 101～108 [AV-28WFX1EUG]
⚠ 100	LC10662-007B-U	FRONT CABI ASSY	Inc. No. 101～108 [AV-28WFX1EUS]
101	CM48229-00A	DOOR LATCH	
102	CM35235-003-H	SPRING	
103	LC30579-001B-C	REMOCON WINDOW	
104	LC30580-001B-C	L. E. D. LENS	
105	LC31109-002A-U	CONTROL SHEET	[AV-28WFX1EUG]
105	LC31109-004A-U	CONTROL SHEET	[AV-28WFX1EUS]
106	LC40354-001C-C	JVC MARK	
107	LC20265-008A-U	DOOR	(SERVICE) [AV-28WFX1EUG]
107	LC20265-012B-U	DOOR	(SERVICE) [AV-28WFX1EUS]
108	LC30578-002A-C	POWER KNOB	(SERVICE) [AV-28WFX1EUG]
108	LC30578-006A-C	POWER KNOB	(SERVICE) [AV-28WFX1EUS]

EXPLODED VIEW (I)

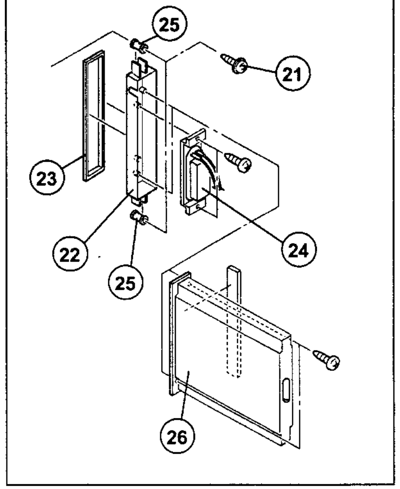
FRONT CABINET



SPEAKER (RIGHT)



SPEAKER (LEFT)



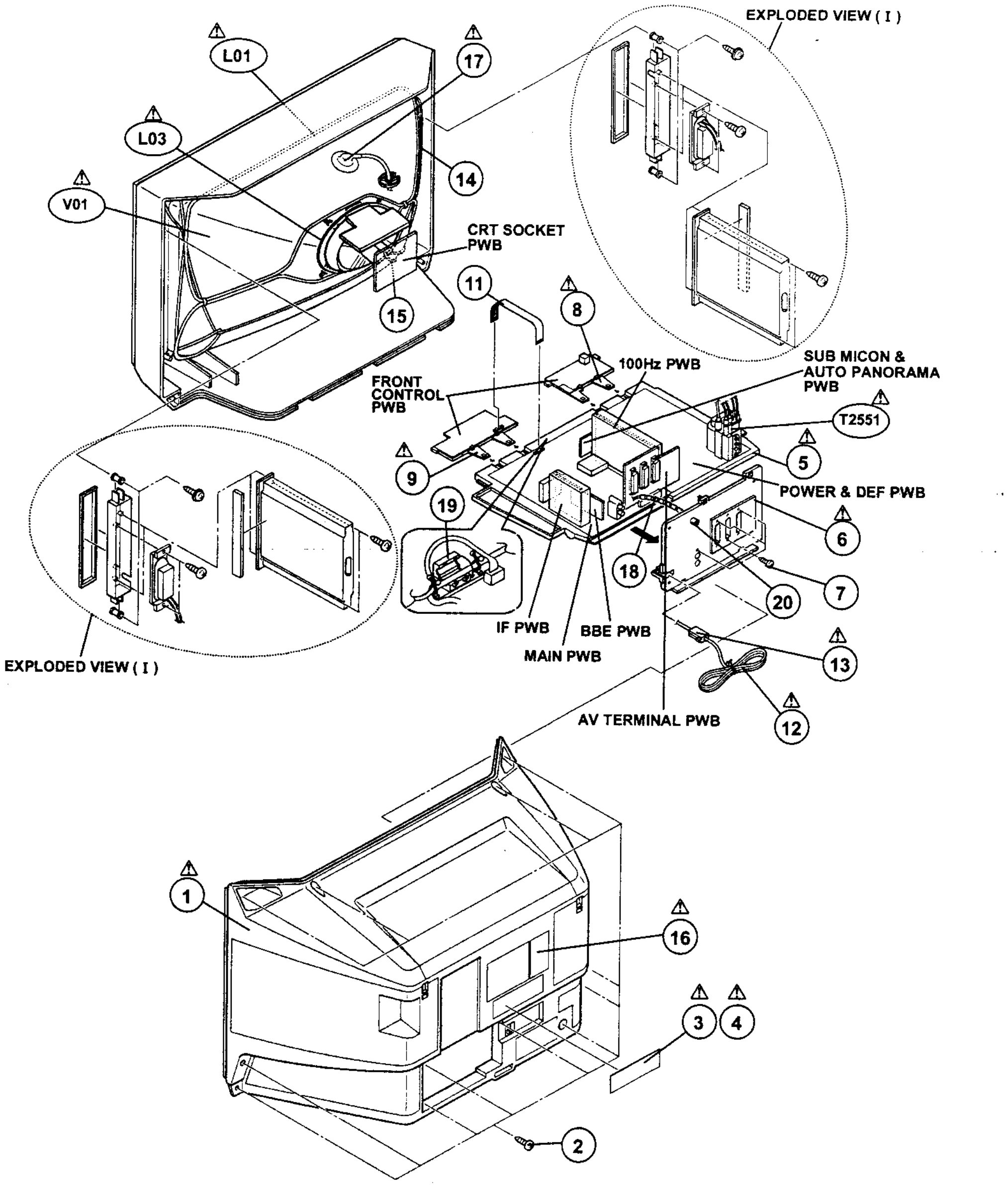
AV-28WFX1EUG / AV-28WFX1EUS

EXPLODED VIEW PARTS LIST (II)

⚠ Ref. No.	Part No.	Part Name	Description
⚠ V01	W66ERF031X044	CRT	Inc. DY, PC, WED
⚠ L01	QQW0070-001	DEG COIL	
⚠ L03	CELD904-001	ROTATION COIL	
⚠ T2551	QQH0054-002-12	H. V. TRANSF.	(SERVICE)Within POWER &DEF PWB
⚠ 1	**LC10664-001C-U**	**REAR COVER**	**[AV-28WFX1EUG]**
⚠ 1	**LC10664-002A-U**	**REAR COVER**	**[AV-28WFX1EUS]**
2	QYSBSAG4016N	TAPPING SCREW	(×12)For REAR COVER
⚠ 3	**LC20380-004A-U**	**RATING LABEL**	**For ENG/GER/FRA [AV-28WFX1EUG]**
⚠ 3	**LC20380-003A-U**	**RATING LABEL**	**For ENG/GER/FRA [AV-28WFX1EUS]**
⚠ 4	**LC20379-004A-U**	**RATING LABEL**	**For ENG/GER/ITA [AV-28WFX1EUG]**
⚠ 4	**LC20379-003A-U**	**RATING LABEL**	**For ENG/GER/ITA [AV-28WFX1EUS]**
⚠ 5	LC10716-001D-U	CHASSIS BASE	
⚠ 6	LC10717-001B-U	AV BOARD	
7	QYSBSB3012M	TAPPING SCREW	(×4)For AV BOARD
⚠ 8	LC10380-003B-U	CONTROL BASE L	
⚠ 9	LC10380-004B-U	CONTROL BASE R	
11	CHFD125-08BD	FFC WIRE	
⚠ 12	QMPK160-185-JC	POWER CORD	
⚠ 13	CM46618-A01-E	POWER CORD CLAMP	
14	WJY0001-004A	E-BRAIDED ASSY	
15	CHGB0017-0B	BRAIDED SUB ASSY	(×2)
⚠ 16	LC30789-002A-U	WARNING LABEL	
⚠ 17	QNZ0407-001	ANODE WIRE ASSY	
18	WJX0006-001A	E-COAXIAL ASSY	
19	QQR0491-001	FILTER	
20	CE42112-002	PALJ CONNECTOR	

AV-28WFX1EUG / AV-28WFX1EUS

EXPLODED VIEW (II)


EXPLODED VIEW (I)
L01
17
L03
14
V01
CRT SOCKET PWB
11
8
15
100Hz PWB
SUB MICON & AUTO PANORAMA PWB
FRONT CONTROL PWB
T2551
5
9
POWER & DEF PWB
19
6
18
7
20
IF PWB
BBE PWB
MAIN PWB
13
EXPLODED VIEW (I)
AV TERMINAL PWB
12
1
16
3
4
2

PRINTED WIRING BOARD PARTS LIST

MAIN PW BOARD ASS'Y (SMD-1007A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1001	QRK126J-474X	C R	470kΩ 1/2W J
	R1002	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1003-06	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1101-03	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1104	NRSA02J-681X	MG R	680Ω 1/10W J
	R1105	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1107	NRSA02J-391X	MG R	390Ω 1/10W J
	R1108	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1109	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1110	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1111	NRSA02J-821X	MG R	820Ω 1/10W J
	R1112	NRSA02J-101X	MG R	100Ω 1/10W J
	R1113	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1121-22	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1123	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1124	NRSA02J-821X	MG R	820Ω 1/10W J
	R1125-27	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1128	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1131-33	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1134	NRSA02J-681X	MG R	680Ω 1/10W J
	R1135	NRSA02J-561X	MG R	560Ω 1/10W J
	R1136	NRSA02J-681X	MG R	680Ω 1/10W J
	R1137	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1138	NRSA02J-391X	MG R	390Ω 1/10W J
	R1140	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1141	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1142	NRSA02J-821X	MG R	820Ω 1/10W J
	R1151	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1152-53	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1154	NRSA02J-681X	MG R	680Ω 1/10W J
	R1155	NRSA02J-561X	MG R	560Ω 1/10W J
	R1156	NRSA02J-681X	MG R	680Ω 1/10W J
	R1157	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1158	NRSA02J-391X	MG R	390Ω 1/10W J
	R1160	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1161	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1162	NRSA02J-821X	MG R	820Ω 1/10W J
	R1171	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1172	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1173	NRSA02J-221X	MG R	220Ω 1/10W J
	R1174	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1175	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1176	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1177	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1178	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1179	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1201-02	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1203	NRSA02J-750X	MG R	75Ω 1/10W J
	R1204	QRK126J-151X	C R	150Ω 1/2W J
	R1205	NRSA02J-101X	MG R	100Ω 1/10W J
	R1206	QRG01GJ-101	OM R	100Ω 1W J
	R1207	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1208	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1209	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1210	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1211	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1212	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1213	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1214	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1215	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1216	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1217	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1218	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1219	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1220	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1221	NRSA02J-391X	MG R	390Ω 1/10W J
	R1222	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1223	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1224	NRSA02J-391X	MG R	390Ω 1/10W J
	R1225-26	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1227	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1228	NRSA02J-680X	MG R	68Ω 1/10W J
	R1229	QRK126J-181X	C R	180Ω 1/2W J
	R1231	QRG01GJ-101	OM R	100Ω 1W J
	R1232	NRSA02J-101X	MG R	100Ω 1/10W J
	R1233	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1242	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1243	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1244	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1245	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1246	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1247	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1248	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1249	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1250	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1251	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1252	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1253	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1254	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1255	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1256	NRSA02J-391X	MG R	390Ω 1/10W J
	R1257	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1258	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1259	NRSA02J-391X	MG R	390Ω 1/10W J
	R1260-61	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1262	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1263	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1264	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1265	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1266	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1267-69	NRSA02J-750X	MG R	75Ω 1/10W J
	R1277-79	NRSA02J-750X	MG R	75Ω 1/10W J
	R1280	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1281	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1282	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1283	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1284	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1285	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1286	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1287	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1288	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1289	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1290	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1291	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1292	NRSA02J-471X	MG R	470Ω 1/10W J
	R1301	NRSA02J-101X	MG R	100Ω 1/10W J
	R1302	NRSA02J-471X	MG R	470Ω 1/10W J
	R1303	NRSA02J-101X	MG R	100Ω 1/10W J
	R1304	NRSA02J-471X	MG R	470Ω 1/10W J
	R1305	NRSA02J-221X	MG R	220Ω 1/10W J
	R1306	NRSA02J-271X	MG R	270Ω 1/10W J
	R1307	NRSA02J-101X	MG R	100Ω 1/10W J
	R1308	NRSA02J-471X	MG R	470Ω 1/10W J
	R1309	NRSA02J-101X	MG R	100Ω 1/10W J
	R1310	NRSA02J-471X	MG R	470Ω 1/10W J
	R1311	NRSA02J-221X	MG R	220Ω 1/10W J
	R1312	NRSA02J-271X	MG R	270Ω 1/10W J
	R1313	NRSA02J-101X	MG R	100Ω 1/10W J
	R1314-15	NRSA02J-471X	MG R	470Ω 1/10W J
	R1317-18	NRSA02J-101X	MG R	100Ω 1/10W J
	R1320	NRSA02J-221X	MG R	220Ω 1/10W J
	R1323-24	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1326-29	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1330	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1331	NRSA02J-101X	MG R	100Ω 1/10W J
	R1332-33	NRSA02J-471X	MG R	470Ω 1/10W J
	R1334-35	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1336	NRSA02J-101X	MG R	100Ω 1/10W J
	R1337	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1338-40	NRSA02J-101X	MG R	100Ω 1/10W J
	R1341	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1342	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1343-44	NRSA02J-101X	MG R	100Ω 1/10W J
	R1345-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1347	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1348	NRSA02J-471X	MG R	470Ω 1/10W J
	R1349	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1350	NRSA02J-271X	MG R	270Ω 1/10W J
	R1381	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1382	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1383	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1384	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1385	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1386	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1387	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1388	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1389	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1390	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1391	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1392	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1395-97	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1398	NRSA02J-101X	MG R	100Ω 1/10W J
	R1401-02	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1403	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1404	QRX01GJ-1R0	MF R	1.0Ω 1W J
	R1405	QRL029J-221	OM R	220Ω 2W J
	R1406	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1407-08	QRX01GJ-1R5	MF R	1.5Ω 1W J
	R1409-10	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1461	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1462	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1463	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1464	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1501	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R1551	NRSA02J-100X	MG R	10Ω 1/10W J
	R1552	NRSA02J-124X	MG R	120kΩ 1/10W J
	R1553	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1554	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1555	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1556	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1557	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1558	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1559	NRSA02J-154X	MG R	150kΩ 1/10W J
	R1560	NRSA02J-100X	MG R	10Ω 1/10W J
	R1561	QRN143J-0R0X	C R	0.0Ω 1/4W J
	R1601	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1602	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1603	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1604	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1605	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R1606-07	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1608	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R1609	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1610	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1611	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1612	NRSA02J-561X	MG R	560Ω 1/10W J
	R1613-14	NRSA02J-123X	MG R	12kΩ 1/10W J
	R1615	NRSA02J-681X	MG R	680Ω 1/10W J
	R1616	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1617-18	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1651	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1652	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1653	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1654	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R1655	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1656-57	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1659-60	QRN143J-2R2X	C R	2.2Ω 1/4W J
	R1661	NRSA02J-561X	MG R	560Ω 1/10W J
	R1665	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1666	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1668	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1669	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1670	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R1671	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1682	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1683	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1684	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1685-86	NRSA02J-681X	MG R	680Ω 1/10W J
	R1687-88	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1703-05	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1708	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1709	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1710	NRSA02J-821X	MG R	820Ω 1/10W J
	R1711	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1713-14	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1716	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1718	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1719	NRSA02J-101X	MG R	100Ω 1/10W J
	R1720	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1721-23	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1724-26	NRSA02J-821X	MG R	820Ω 1/10W J
	R1727	NRSA02J-153X	MG R	15kΩ 1/10W J
	R1728	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1729	NRSA02J-683X	MG R	68kΩ 1/10W J
	R1730	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1731	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R1732	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1733	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1734	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1735-36	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R1738	NRSA02J-183X	MG R	18kΩ 1/10W J
	R1739	NRSA02J-331X	MG R	330Ω 1/10W J
	R1740	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1742	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1743	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R1744-46	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1747	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1751-52	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1753	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1754	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1755	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1756-57	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1758-59	NRSA02J-221X	MG R	220Ω 1/10W J
	R1760	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1761-65	NRSA02J-221X	MG R	220Ω 1/10W J
	R1766	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1767	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1768	NRSA02J-823X	MG R	82kΩ 1/10W J
	R1770	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1771	NRSA02J-392X	MG R	3.9kΩ 1/10W J
	R1772-74	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1775-76	NRSA02J-563X	MG R	56kΩ 1/10W J
	R1777	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1778	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1779	NRSA02J-333X	MG R	33kΩ 1/10W J
	R1780	NRSA02J-104X	MG R	100kΩ 1/10W J
	R1791	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1792	NRSA02J-101X	MG R	100Ω 1/10W J
	R1793	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1794	NRSA02J-152X	MG R	1.5kΩ 1/10W J
	R1797	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1820	NRSA02J-332X	MG R	3.3kΩ 1/10W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R1880-82	NRSA02J-102X	MG R	1kΩ 1/10W J
	R1883	NRSA02J-473X	MG R	47kΩ 1/10W J
	R1884-86	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1888-89	NRSA02J-103X	MG R	10kΩ 1/10W J
	R1890	NRSA02J-221X	MG R	220Ω 1/10W J
	R1891	NRSA02J-273X	MG R	27kΩ 1/10W J
	R1892-96	NRSA02J-221X	MG R	220Ω 1/10W J
	R1897	QRG029J-220	OM R	22 Ω 2W J
	R1901	NRSA02J-101X	MG R	100Ω 1/10W J
	R1902	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1903	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R1904	NRSA02J-223X	MG R	22kΩ 1/10W J
	R1905	NRSA02J-102X	MG R	1kΩ 1/10W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1001	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1002	QETN1HM-107Z	E CAP.	100µF 50V M
	C1003	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1004	QETN1CM-107Z	E CAP.	100µF 16V M
	C1005	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1006	QETN1CM-227Z	E CAP.	220µF 16V M
	C1007	NCB21HK-222X	C CAP.	2200pF 50V K
	C1008	QETN1HM-106Z	E CAP.	10µF 50V M
	C1101-02	QETN1CM-107Z	E CAP.	100µF 16V M
	C1103	NDC21HJ-181X	C CAP.	180pF 50V J
	C1104	QETN1EM-476Z	E CAP.	47µF 25V M
	C1105	QENC1HM-474Z	BP E CAP.	0.47µF 50V M
	C1106	QETN1HM-106Z	E CAP.	10µF 50V M
	C1107	QETN1AM-227Z	E CAP.	220µF 10V M
	C1108	NDC21HJ-120X	C CAP.	12pF 50V J
	C1109	NDC21HJ-470X	C CAP.	47pF 50V J
	C1110	NDC21HJ-220X	C CAP.	22pF 50V J
	C1121-22	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1123	QETN1EM-476Z	E CAP.	47µF 25V M
	C1124-25	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1128	QETN1CM-107Z	E CAP.	100µF 16V M
	C1129	QETN1EM-476Z	E CAP.	47µF 25V M
	C1130	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1131	QETN1EM-476Z	E CAP.	47µF 25V M
	C1132	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1134	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1135	NDC21HJ-181X	C CAP.	180pF 50V J
	C1136-39	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1140	QETN1EM-476Z	E CAP.	47µF 25V M
	C1141	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1151	QETN1AM-227Z	E CAP.	220µF 10V M
	C1152	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1153	QETN1AM-107Z	E CAP.	100µF 10V M
	C1155	QETN1EM-476Z	E CAP.	47µF 25V M
	C1156	NDC21HJ-270X	C CAP.	27pF 50V J
	C1157	NDC21HJ-220X	C CAP.	22pF 50V J
	C1161	QETN1EM-476Z	E CAP.	47µF 25V M
	C1163	QETN1EM-476Z	E CAP.	47µF 25V M
	C1171	NDC21HJ-221X	C CAP.	220pF 50V J
	C1172	NDC21HJ-560X	C CAP.	56pF 50V J
	C1173	NDC21HJ-221X	C CAP.	220pF 50V J
	C1174	NDC21HJ-121X	C CAP.	120pF 50V J
	C1192	QETN1CM-227Z	E CAP.	220µF 16V M
	C1193	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1201	QETN1CM-227Z	E CAP.	220µF 16V M
	C1202	NCB21HK-102X	C CAP.	1000pF 50V K
	C1203-04	QETN1HM-105Z	E CAP.	1µF 50V M
	C1205-06	QETN1HM-106Z	E CAP.	10µF 50V M
	C1207	QETN1CM-227Z	E CAP.	220µF 16V M
	C1211	NCB21HK-102X	C CAP.	1000pF 50V K
	C1212-13	QETN1HM-105Z	E CAP.	1µF 50V M
	C1214-15	QETN1HM-106Z	E CAP.	10µF 50V M
	C1216-17	QETN1HM-105Z	E CAP.	1µF 50V M
	C1218-19	QETN1EM-476Z	E CAP.	47µF 25V M
	C1220	QETN1HM-105Z	E CAP.	1µF 50V M
	C1221-22	QETN1CM-107Z	E CAP.	100µF 16V M

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1223-24	QETN1HM-105Z	E CAP.	1µF 50V M
	C1231-33	QETN1EM-476Z	E CAP.	47µF 25V M
	C1234	NCB21HK-102X	C CAP.	1000pF 50V K
	C1301	QETN1CM-227Z	E CAP.	220µF 16V M
	C1302	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1303	QETN1EM-476Z	E CAP.	47µF 25V M
	C1304	QENC1CM-476Z	BP E CAP.	47µF 16V M
	C1305	QETN1HM-226Z	E CAP.	22µF 50V M
	C1306	NCB21HK-223X	C CAP.	0.022µF 50V K
	C1307-08	QENC1HM-105Z	BP E CAP.	1µF 50V M
	C1309	NDC21HJ-390X	C CAP.	39pF 50V J
	C1311-13	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1314	NCB21HK-222X	C CAP.	2200pF 50V K
	C1315	NCB21CK-474X	C CAP.	0.47µF 16V K
	C1316	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1317	NCB21EK-154X	C CAP.	0.15µF 25V K
	C1318	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1319	NCB21HK-332X	C CAP.	3300pF 50V K
	C1320	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1321-22	NDC21HJ-150X	C CAP.	15pF 50V J
	C1323	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1325-26	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1327	QETN1CM-227Z	E CAP.	220µF 16V M
	C1328-32	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1333	NCF21CZ-105X	C CAP.	1µF 16V Z
	C1342-44	NDC21HJ-220X	C CAP.	22pF 50V J
	C1345	NDC21HJ-121X	C CAP.	120pF 50V J
	C1362	NDC21HJ-330X	C CAP.	33pF 50V J
	C1363-65	QETN1HM-106Z	E CAP.	10µF 50V M
	C1366	NDC21HJ-180X	C CAP.	18pF 50V J
	C1387-88	QETN1EM-476Z	E CAP.	47µF 25V M
	C1389-90	QETN0JM-228Z	E CAP.	2200µF 6.3V M
	C1392	NDC21HJ-680X	C CAP.	68pF 50V J
	C1396-98	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1403	QFLC2AJ-104Z	M CAP.	0.1µF 100V J
	C1404	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1405	NDC21HJ-820X	C CAP.	82pF 50V J
	C1406	QETN1VM-108	E CAP.	1000µF 35V M
	C1408	QETN1VM-337Z	E CAP.	330µF 35V M
	C1409-10	QFV71HJ-474Z	MF CAP.	0.47µF 50V J
	C1412	QFLC2AJ-104Z	M CAP.	0.1µF 100V J
	C1417-18	QETN1CM-108Z	E CAP.	1000µF 16V M
	C1419	NCB21HK-682X	C CAP.	6800pF 50V K
	C1461	QETN1HM-226Z	E CAP.	22µF 50V M
	C1551-52	NCB21CK-224X	C CAP.	0.22µF 16V K
	C1553	QETN1EM-476Z	E CAP.	47µF 25V M
	C1554-55	NCB21CK-224X	C CAP.	0.22µF 16V K
	C1601-02	QDC31HJ-2R0Z	C CAP.	2.0pF 50V J
	C1603-04	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1605-06	QETN1HM-106Z	E CAP.	10µF 50V M
	C1607-08	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C1613-14	NDC21HJ-471X	C CAP.	470pF 50V J
	C1615	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C1616-18	QETN1HM-106Z	E CAP.	10µF 50V M
	C1619	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C1620	QETN1HM-106Z	E CAP.	10µF 50V M
	C1621-24	NCB21HK-102X	C CAP.	1000pF 50V K
	C1625-26	NDC21HJ-391X	C CAP.	390pF 50V J
	C1627-28	NCB21HK-102X	C CAP.	1000pF 50V K
	C1629	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1630	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C1631	QETN1CM-107Z	E CAP.	100µF 16V M
	C1632	NCF21EZ-104X	C CAP.	0.1µF 25V Z
	C1633-34	QETN1HM-105Z	E CAP.	1µF 50V M
	C1635	NCB21HK-562X	C CAP.	5600pF 50V K
	C1636	QETN1CM-107Z	E CAP.	100µF 16V M
	C1637-38	NDC21HJ-221X	C CAP.	220pF 50V J
	C1639-40	QETN1HM-106Z	E CAP.	10µF 50V M
	C1641	QETN1EM-476Z	E CAP.	47µF 25V M
	C1642	NCB21HK-562X	C CAP.	5600pF 50V K
	C1643	QETN1HM-105Z	E CAP.	1µF 50V M
	C1644-45	NDC21HJ-470X	C CAP.	47pF 50V J
	C1646	NDC21HJ-820X	C CAP.	82pF 50V J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C1647	NCB21HK-472X	C CAP.	4700pF 50V K
	C1648	NDC21HJ-180X	C CAP.	18pF 50V J
	C1652-53	QETN1HM-105Z	E CAP.	1µF 50V M
	C1654	QETN1HM-107Z	E CAP.	100µF 50V M
	C1655	QETN1HM-106Z	E CAP.	10µF 50V M
	C1656-57	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C1658	QETN1HM-228	E CAP.	2200µF 50V M
	C1661-62	NCF21HZ-224X	C CAP.	0.22µF 50V Z
	C1663-64	QETN1VM-108	E CAP.	1000µF 35V M
	C1667	QETN1CM-227Z	E CAP.	220µF 16V M
	C1676-77	NCB21HK-103X	C CAP.	0.01µF 50V K
	C1679	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1682	QETN1CM-227Z	E CAP.	220µF 16V M
	C1701	NDC21HJ-471X	C CAP.	470pF 50V J
	C1702	NCB21HK-682X	C CAP.	6800pF 50V K
	C1703	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1704	QETN1AM-227Z	E CAP.	220µF 10V M
	C1705-06	NDC21HJ-9R0X	C CAP.	9.0pF 50V J
	C1707	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1708	NCB21HK-333X	C CAP.	0.033µF 50V K
	C1709	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1710	QETN1EM-476Z	E CAP.	47µF 25V M
	C1711	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1714	QETN1HM-474Z	E CAP.	0.47µF 50V M
	C1715	QETN1EM-476Z	E CAP.	47µF 25V M
	C1717	QETN1HM-106Z	E CAP.	10µF 50V M
	C1718	NDC21HJ-471X	C CAP.	470pF 50V J
	C1719	NCF21CZ-105X	C CAP.	1µF 16V Z
	C1720	NCB21HK-102X	C CAP.	1000pF 50V K
	C1757	NCS21HJ-471X	C CAP.	470pF 50V J
	C1758	QETN1AM-227Z	E CAP.	220µF 10V M
	C1759	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1760-61	NDC21HJ-150X	C CAP.	15pF 50V J
	C1762	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1763	QETN1EM-476Z	E CAP.	47µF 25V M
	C1764	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1766-68	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1774	NDC21HJ-151X	C CAP.	150pF 50V J
	C1776-77	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1780	NCB21HK-104X	CHIP CAP.	0.1µF 50V K
	C1781	NDC21HJ-101X	C CAP.	100pF 50V J
	C1782	NCB21HK-102X	C CAP.	1000pF 50V K
	C1783	NDC21HJ-151X	C CAP.	150pF 50V J
	C1784	QETN1CM-227Z	E CAP.	220µF 16V M
	C1785	NCB21HK-102X	C CAP.	1000pF 50V K
	C1901	QETN1CM-107Z	E CAP.	100µF 16V M
	C1902	QETN1HM-106Z	E CAP.	10µF 50V M

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T1101	CE42697-001	LOWPASS FILTER	
	T1111	CE42697-001	LOWPASS FILTER	
	T1121	CE42697-001	LOWPASS FILTER	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1001-02	QQL01BK-8R2Z	PEAKING COIL	8.2µH
	L1003	QQL01BK-221Z	PEAKING COIL	220µH
	L1004	QQL01BK-5R6Z	PEAKING COIL	5.6µH
	L1101	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1102-05	QQL03BJ-220Z	PEAKING COIL	22µH
	L1106	QQL03BJ-270Z	PEAKING COIL	27µH
	L1111	QQL03BJ-220Z	PEAKING COIL	22µH
	L1121	QQL03BJ-330Z	PEAKING COIL	33µH
	L1301	QQL01BK-390Z	PEAKING COIL	39µH
	L1302	NQL024J-5R6X	COIL	5.6µH
	L1601-02	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1603	QQL01BK-100Z	PEAKING COIL	10µH
	L1604	QQL01BJ-180Z	PEAKING COIL	18µH
	L1605	QQL01BJ-220Z	PEAKING COIL	22µH
	L1606-07	QQL01BK-5R6Z	PEAKING COIL	5.6µH
	L1701	QQL01BK-331Z	PEAKING COIL	330µH

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L1702	QQL01BK-3R9Z	PEAKING COIL	3.9µH
	L1752	QRN143J-0R0X	C R	0.0Ω 1/4W J
	L1753	QQL01BK-4R7Z	PEAKING COIL	4.7µH

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D1201-11	MA3130/H/-X	ZENER DIODE	
	D1214-15	MA3130/H/-X	ZENER DIODE	
	D1402	BYD33D-T3	SI.DIODE	
	D1403-04	MA3330/L/-X	ZENER DIODE	
	D1461	MA111-X	SI.DIODE	
	D1462	MA3220/M/-X	ZENER DIODE	
	D1502	MA111-X	SI.DIODE	
	D1504	MA111-X	SI.DIODE	
	D1601	MA3062/M/-X	ZENER DIODE	
	D1653-54	MA3330/L/-X	ZENER DIODE	
	D1657	MA111-X	SI.DIODE	
	D1658	MA153A-X	SI.DIODE	
	D1660	MA111-X	SI.DIODE	
	D1661	MA153A-X	SI.DIODE	
	D1664	MA111-X	SI.DIODE	
	D1669	MA152WK-X	SI.DIODE	
	D1670	MA111-X	SI.DIODE	
	D1701-02	MA111-X	SI.DIODE	
	D1704	1SS244-T2	SI.DIODE	
	D1708	MA111-X	SI.DIODE	
	D1709	MA3068/M/-X	ZENER DIODE	
	D1712	MA111-X	SI.DIODE	
	D1753	MA111-X	SI.DIODE	
	D1754	MA3062/M/-X	ZENER DIODE	
	D1771-76	MA3056/M/-X	ZENER DIODE	
	D1901	MA3130/H/-X	ZENER DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q1101-04	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1111	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1112	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1113-14	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1121	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1122	2SA1037AK/QR/-X	SI.TRANSISTOR	
	Q1123-24	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1131-32	2SC2412K/QR/-X	SI.TRANSISTOR	
	Q1201-02	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1203	2SC1815/YG/-T	SI.TRANSISTOR	
	Q1204-05	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1206-07	DTC323TK-X	DIGI.TRANSISTOR	
	Q1208	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1209	2SA1015/YG/-T	SI.TRANSISTOR	
	Q1211	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1213-14	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1215-16	DTC323TK-X	DIGI.TRANSISTOR	
	Q1217	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1220-21	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1303-04	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1305	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1345	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1346	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1351	DTC124EKA-X	DIGI.TRANSISTOR	
	Q1381-83	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1461-62	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1601	DTC323TK-X	DIGI.TRANSISTOR	
	Q1602	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1603	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1651	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1652-53	DTC323TK-X	DIGI.TRANSISTOR	
	Q1657	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1659-60	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1701-08	2SC2712/YG/-X	SI.TRANSISTOR	
	Q1709	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1752	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1901	2SA1162/YG/-X	SI.TRANSISTOR	
	Q1902	2SC2712/YG/-X	SI.TRANSISTOR	

IC

⚠	Symbol No.	Part No.	Part Name	Description
	IC1101	TC9090AN	I.C.(DIGI-MOS)	
	IC1301	CXA1545AS	I.C.(MONO-ANA)	
	IC1303	TDA9143/N3	I.C.(MONO-ANA)	
	IC1304	TDA4665/V5	I.C.(MONO-ANA)	
	IC1305	LA7016	I.C.(MONO-ANA)	
	IC1401	LA7841	I.C.(MONO-ANA)	
	IC1551	LA6515	I.C.(MONO-ANA)	
	IC1601	MSP3410D-PP-C5	I.C.(DIGI-OTHER)	
	IC1602	BA4558F-X	I.C(MONO-ANA)	
	IC1651	TA8246AH	I.C.(HYBRID)	
	IC1701	M37280MK-105SP	I C	
	IC1702	L78LR05E-MA	I C	
	IC1703	AT24C16-32WFX1	I.C.	(SERVICE)
	IC1754	SDA5275S	I.C.(MICRO-PROC)	
	IC1755	MSM514400D-60ZS	I.C.(D-RAM)	

OTHERS

⚠	Symbol No.	Part No.	Part Name	Description
	CN1002	QGF1216C1-25	FFC CONNECTOR	
	CN1008	QGB2004P2-35	HQF PLUG	
	J1651	QNN0296-001	PIN JACK	
	K1001	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1009	QRN143J-0R0X	C R	0.0Ω 1/4W J
	K1101	QQR0621-002Z	BEADS CORE	
	K1401	QQR0621-002Z	BEADS CORE	
	K1701	QQR0621-002Z	BEADS CORE	
	LC1101	CE42142-222Z	EMI FILTER	
	LC1601	CE42142-103Z	EMI FILTER	
	TU1001	CEEK481-A04	TUNER	
	W1001-02	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	X1311	CE40749-001Z	CRYSTAL	
	X1312	CE40668-001Z	CRYSTAL	
	X1601	CE42546-001Z	CRYSTAL	
	X1701	CST8.00MTW	CER.RESONATOR	
	X1752	QAX0351-001Z	CRYSTAL	
	Y1301-06	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1312-13	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1315	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1328	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1401	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1502-05	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1653	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1657-58	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1661-62	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1701-03	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y1750-53	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

POWER & DEF PW BOARD ASS'Y (SMD-2007A-U2)

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R2451	QRE141J-272Y	C R	2.7kΩ 1/4W J
	R2455	QRE141J-102Y	C R	1kΩ 1/4W J
	R2456	QRE141J-473Y	C R	47kΩ 1/4W J
	R2457	QRE141J-103Y	C R	10kΩ 1/4W J
	R2458	QRA14CF-1002Y	MF R	10kΩ 1/4W F
	R2459	QRE141J-391Y	C R	390Ω 1/4W J
	R2461	QRE141J-102Y	C R	1kΩ 1/4W J
	R2463	QRG029J-820	OM R	82 Ω 2W J
	R2464	QRX01GJ-2R2	MF R	2.2Ω 1W J
	R2465	QRE141J-103Y	C R	10kΩ 1/4W J
	R2468	QRE141J-393Y	C R	39kΩ 1/4W J
	R2470	QRE141J-103Y	C R	10kΩ 1/4W J
	R2501	QRE141J-471Y	C R	470Ω 1/4W J
	R2502	QRE141J-123Y	C R	12kΩ 1/4W J
	R2503	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R2504	QRG039J-272	OM R	2.7kΩ 3W J
	R2505	QRG039J-332	OM R	3.3kΩ 3W J
	R2506	QRE121J-5R6Y	C R	5.6Ω 1/2W J
	R2507	QRC121K-152Z	COMP.R	1.5kΩ 1/2W K
	R2509	QRE141J-563Y	C R	56kΩ 1/4W J
	R2510	QRE141J-333Y	C R	33kΩ 1/4W J
	R2511	QRE141J-102Y	C R	1kΩ 1/4W J
	R2522	QRE121J-471Y	C R	470Ω 1/2W J
⚠	R2551	QRZ9017-4R7	F R	4.7Ω 1/4W J
⚠	R2552	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J
⚠	R2553	QRZ9021-1R0	FUSI.RESISTOR	1 Ω 1W J
	R2554	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R2555	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R2557	QRE121J-272Y	C R	2.7kΩ 1/2W J
	R2561	QRZ0056-103Z	COMP.R	10kΩ
	R2574	QRG029J-220	OM R	22 Ω 2W J
	R2575	QRE121J-123Y	C R	12kΩ 1/2W J
	R2581	QRF154K-4R7	UNF R	4.7Ω 15W K
	R2582	QRE141J-681Y	C R	680Ω 1/4W J
	R2583	QRE121J-682Y	C R	6.8kΩ 1/2W J
	R2584	QRE141J-183Y	C R	18kΩ 1/4W J
	R2585	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R2586	QRA14CF-7501Y	MF R	7.5kΩ 1/4W F
	R2587	QRA14CF-2201Y	MF R	2.2kΩ 1/4W F
	R2588	QRE141J-103Y	C R	10kΩ 1/4W J
	R2901	QRF104K-3R9	UNF R	3.9Ω 10W K
	R2902	QRE121J-331Y	C R	330Ω 1/2W J
	R2903-04	QRE121J-474Y	C R	470kΩ 1/2W J
	R2905	QRL039J-823	OM R	82kΩ 3W J
	R2906	QRG039J-683	OM R	68kΩ 3W J
⚠	R2907	QRZ9017-4R7	F R	4.7Ω 1/4W J
	R2908	QRE121J-152Y	C R	1.5kΩ 1/2W J
	R2909	QRT029J-R39	MF R	0.39Ω 2W J
	R2910	QRM059J-R22	MP R	0.22Ω 5W J
	R2911	QRE121J-681Y	C R	680Ω 1/2W J
	R2912	QRE121J-332Y	C R	3.3kΩ 1/2W J
	R2913	QRL039J-823	OM R	82kΩ 3W J
	R2923	QRE121J-102Y	C R	1kΩ 1/2W J
	R2951	QRF074J-102	UNF R	1kΩ 7W J
	R2952	QRG029J-103	OM R	10kΩ 2W J
	R2953	QRG029J-183	OM R	18kΩ 2W J
	R2954	QRE141J-330Y	C R	33Ω 1/4W J
	R2955	QRE141J-681Y	C R	680Ω 1/4W J
	R2956	QRX029J-R47	MF R	0.47 Ω 2W J
	R2957	QRG029J-100	OM R	10 Ω 2W J
	R2960	QRE141J-153Y	C R	15kΩ 1/4W J
	R2961	QRE141J-182Y	C R	1.8kΩ 1/4W J
	R2962	QRE141J-153Y	C R	15kΩ 1/4W J
	R2963	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2968	QRE141J-103Y	C R	10kΩ 1/4W J
	R2969	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2970	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R2971	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R2983	QRE141J-122Y	C R	1.2kΩ 1/4W J
	R2984	QRE141J-104Y	C R	100kΩ 1/4W J
	R2985-86	QRE141J-103Y	C R	10kΩ 1/4W J

RESISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	R2987	QRE121J-680Y	C R	68Ω 1/2W J
⚠	R2991	QRZ0057-825	C R	8.2MΩ 1W J

CAPACITOR

⚠	Symbol No.	Part No.	Part Name	Description
	C2451	QCS31HJ-470Z	C CAP.	47pF 50V J
	C2452	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
	C2453	QETN1EM-476Z	E CAP.	47μF 25V M
	C2454	QETN1HM-106Z	E CAP.	10μF 50V M
	C2455	QFLC1HJ-102Z	M CAP.	1000pF 50V J
	C2456	QFM72DJ-152Z	M CAP.	1500pF 200V J
	C2457	QFM72DJ-152Z	M CAP.	1500pF 200V J
	C2458	QEZ0472-106Z	E CAP.	10μF 250V M
	C2459	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C2460	QFP31HJ-272Z	PP CAP.	2700pF 50V J
	C2461	QFLC1HJ-182Z	M CAP.	1800pF 50V J
	C2501	QCB32HK-331Z	C CAP.	330pF 500V K
	C2502	QFM72DK-103	M CAP.	0.01μF 200V K
	C2503	QFV71HJ-224Z	MF CAP.	0.22μF 50V J
⚠	C2521	QFZ0122-112	MPP CAP.	1100pF1.8kVH ±3%
⚠	C2522	QFZ0200-123	MPP CAP.	0.012μF1.5kVH ±3%
	C2523	QFM72DK-393	M CAP.	0.039μF 200V K
⚠	C2524	QFP32GJ-223	PP CAP.	0.022μF 400V J
	C2525	QFZ0194-914	MPP CAP.	0.91μF 250V J
	C2526	QFZ0199-104	MPP CAP.	0.1μF 250V J
	C2527	QFZ0194-154	MPP CAP.	0.15μF 250V J
	C2528	QFZ0199-104	MPP CAP.	0.1μF 250V J
	C2529	QCB32HK-561Z	C CAP.	560pF 500V K
	C2530	QFZ0194-154	MPP CAP.	0.15μF 250V J
	C2532	QETM2CM-227	E CAP.	220μF 160V M
	C2551	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2552	QETN1CM-108Z	E CAP.	1000μF 16V M
	C2553	QCB32HK-152Z	C CAP.	1500pF 500V K
	C2554	QETN1CM-108Z	E CAP.	1000μF 16V M
	C2555	QENC1HM-225Z	BP E CAP.	2.2μF 50V M
	C2556	QCB32HK-102Z	C CAP.	1000pF 500V K
	C2557	QETN2EM-106Z	E CAP.	10μF 250V M
	C2565	QFLC2AJ-273Z	M CAP.	0.027μF 100V J
	C2581	QETN1CM-107Z	E CAP.	100μF 16V M
	C2582	QETN1EM-476Z	E CAP.	47μF 25V M
	C2583	QETN2AM-106Z	E CAP.	10μF 100V M
	C2584	QETN1AM-227Z	E CAP.	220μF 10V M
	C2585	QFZ0194-534	MPP CAP.	0.53μF 250V J
⚠	C2901	QFZ9040-473	MF CAP.	0.047μFAC275V M
⚠	C2902	QCZ9054-472	C CAP.	4700pFAC250V Z
⚠	C2903	QCZ9054-472	C CAP.	4700pFAC250V Z
⚠	C2904	QCZ9054-472	C CAP.	4700pFAC250V Z
	C2905	QEZ0199-227	E CAP.	220μF 400V M
	C2906	QCB32HK-103	C CAP.	0.01μF 500V K
	C2907	QCZ0122-391	C CAP.	390pF 2kV K
	C2908	QETN1HM-476Z	E CAP.	47μF 50V M
	C2909	QCB31HK-182Z	C CAP.	1800pF 50V K
	C2910	QCZ0122-561	C CAP.	560pF 2kV K
	C2912	QCB31HK-561Z	C CAP.	560pF 50V K
	C2921	QETN1EM-227Z	E CAP.	220μF 25V M
	C2922-23	QETN1HM-106Z	E CAP.	10μF 50V M
	C2951	QEZ0203-227	E CAP.	220μF 160V M
	C2952	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2953-54	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2955	QEHR1CM-477Z	E CAP.	470μF 16V M
	C2956	QEHQ1VM-228	E CAP.	2200μF 35V M
	C2959-60	QCB32HK-102Z	C CAP.	1000pF 500V K
	C2966	QFLC1HJ-103Z	M CAP.	0.01μF 50V J
	C2967	QEHQ1CM-228	E CAP.	2200μF 16V M
	C2968	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C2970	QEHR1CM-227Z	E CAP.	220μF 16V M
	C2972-73	QEHR1AM-477Z	E CAP.	470μF 10V M
	C2974-75	QEZ0256-128	E CAP.	1200μF 10V M
	C2976	QETN1AM-227Z	E CAP.	220μF 10V M
	C2977	QFV71HJ-684Z	MF CAP.	0.68μF 50V J
	C2978	QCZ0122-471	C CAP.	470pF 2kV K
⚠	C2991	QCZ9079-332	C CAP.	3300pFAC250V K
⚠	C2992	QCZ9079-471	C CAP.	470pFAC250V K

TRANSFORMER

⚠	Symbol No.	Part No.	Part Name	Description
	T2501	QQR1111-001	DRIVE TRANSF.	
	T2521	QQR0706-001	PINC.TRANSF.	
⚠	T2551	QQH0054-002-I2	HVT	(SERVICE)
	T2561	QQR1096-001	DEF TRANSF.	
⚠	T2901	CETS129-001J4	SW TRANSF.	
⚠	T2921	QQT0147-001	POWER TRANSF.	

COIL

⚠	Symbol No.	Part No.	Part Name	Description
	L2451	QQL43AJ-332	CHOKE COIL	
	L2452	QQLZ020-801	CHOKE COIL	
	L2521	QQLZ025-180	CHOKE COIL	
	L2522	QQR0961-002	LINEARITY COIL	
	L2551	QQLZ026-540	HEATER CHOKE	
	L2561	QQL43AJ-222	CHOKE COIL	2200μH
	L2901-02	QQL401K-100Z	CHOKE COIL	
⚠	L2903	QQR0646-003	CHOKE COIL	
	L2951	QQLZ026-460	HEATER CHOKE	
	L2952-54	QQL26AK-220Z	CHOKE COIL	
	L2955	QQR0518-001	CHOKE COIL	
	L2956	QQLZ026-460	HEATER CHOKE	
	L2957	QQL26AK-220Z	CHOKE COIL	

DIODE

⚠	Symbol No.	Part No.	Part Name	Description
	D2451	1SS133-T2	SI.DIODE	
	D2454	BYD33D-T3	SI.DIODE	
	D2501	1SS81-T5	SI.DIODE	
	D2502	1SS133-T2	SI.DIODE	
	D2503	MTZJ15B-T2	ZENER DIODE	
	D2521	V11CA-C1	SI.DIODE	
	D2522	FMV-3FU-F1	SI.DIODE	
	D2551-52	BYW95B-20	SI.DIODE	
	D2553	BYD33G-T3	SI.DIODE	
	D2554	MTZJ4.7A-T2	ZENER DIODE	
	D2555-56	BYD33G-T3	SI.DIODE	
	D2581	MTZJ15B-T2	ZENER DIODE	
	D2582	MTZJ7.5B-T2	ZENER DIODE	
	D2583	MTZJ7.5S-T2	ZENER DIODE	
	D2584	BYD33G-T3	SI.DIODE	
⚠	D2901	D3SB60	BRIDGE DIODE	
	D2902	BYD33M-T3	SI.DIODE	
⚠	D2903	BYD33D-T3	SI.DIODE	
	D2904	BYD33D-T3	SI.DIODE	
	D2905	1SS133-T2	SI.DIODE	
	D2907	MTZJ15B-T2	ZENER DIODE	
	D2921-24	1N4003-T2	SI.DIODE	
	D2925	MTZJ10B-T2	ZENER DIODE	
	D2951	RU4B-F1	SI.DIODE	
	D2953	FMX-G12S	SI.DIODE	
	D2954	BYW95B-20	SI.DIODE	
	D2955	SF6L20U	SI.DIODE	
	D2958	BYD33M-T3	SI.DIODE	
	D2959	RK44-LFT4	SI.DIODE	
	D2960	MTZJ33B-T2	ZENER DIODE	
	D2961-62	1SS133-T2	SI.DIODE	
	D2964-66	1SS133-T2	SI.DIODE	
	D2981-82	1SS133-T2	SI.DIODE	

TRANSISTOR

⚠	Symbol No.	Part No.	Part Name	Description
	Q2452	2SK2459N-F54	F.E.T.	
	Q2453	2SC1815/YG/-T	SI.TRANSISTOR	
	Q2501	BSN304-T	F.E.T.	
	Q2502	2SC1815/YG/-T	SI.TRANSISTOR	
⚠	Q2521	2SC5552-RL	SI.TRANSISTOR	H.OUT
	Q2581	2SA949/Y/Z1-T	SI.TRANSISTOR	
	Q2582	DTC144ESA-T	DIGI.TRANSISTOR	
	Q2583	2SC1815/YG/-T	SI.TRANSISTOR	
	Q2921	2SC2655/Y/-T	SI.TRANSISTOR	
	Q2981-82	2SC1815/YG/-T	SI.TRANSISTOR	

⚠	Symbol No.	Part No.	Part Name	Description
	IC			
	IC2451	BA10393	IC	
	IC2901	STR-F6668B	I C	
	IC2951	SE140N	I.C.(HYBRID)	
	IC2952	BA12T	I.C.(MONO-ANA)	
	IC2953	SI-8050S	I.C.(HYBRID)	
	IC2954	BA033T	I.C.(MONO-ANA)	
	IC2955	μPC2409AHF	I.C.(MONO-ANA)	
	IC2956	BA08T	I C	
	OTHERS			
⚠	CP2953	ICP-N75-Y	I.C.PROTECT	
	K2521	CE41832-001	LEAD CORE	
	K2523-25	CE41832-001	LEAD CORE	
	K2901-02	CE42050-001Z	CORE	
	K2951	QQR0679-001	FERRITE BEADS	
	K2952	QQR0621-002Z	BEADS CORE	
	K2953	QQR0716-001Z	LEAD CORE	
⚠	PC2901	TLP721F(D4-GR)	I.C.(PH.COUPLER)	
⚠	RY2981	QSK0086-001	RELAY	
⚠	TH2901	QAD0120-9R0	P THERMISTOR	

CRT SOCKET PW BOARD ASS'Y (SMD-3005A-U2)

Refer to PARTS LIST in page 46 for this P.W. board.

FRONT CONTROL PW BOARD ASS'Y (SMD-8006A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R8001-02	QRE121J-271Y	C R	270Ω 1/2W J
	R8003	QRE141J-222Y	C R	2.2kΩ 1/4W J
	R8004	QRE141J-472Y	C R	4.7kΩ 1/4W J
	R8005	QRE141J-561Y	C R	560Ω 1/4W J
	R8008	QRE141J-682Y	C R	6.8kΩ 1/4W J
	R8009	QRE141J-105Y	C R	1MΩ 1/4W J
	R8010	QRE141J-183Y	C R	18kΩ 1/4W J
	R8011	QRE141J-123Y	C R	12kΩ 1/4W J
	R8012	QRE141J-273Y	C R	27kΩ 1/4W J
	R8013	QRE141J-332Y	C R	3.3kΩ 1/4W J
	R8014	QRE141J-123Y	C R	12kΩ 1/4W J
	R8020	QRE141J-562Y	C R	5.6kΩ 1/4W J
	R8021-22	QRE141J-102Y	C R	1kΩ 1/4W J
	R8035	QRE141J-391Y	C R	390Ω 1/4W J
	R8036-38	QRE141J-561Y	C R	560Ω 1/4W J
	R8039	QRE141J-821Y	C R	820Ω 1/4W J
	CAPACITOR			
	C8001-02	QCB31HK-103Z	C CAP.	0.01μF 50V K
	C8003	QETN1HM-106Z	E CAP.	10μF 50V M
	C8004	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C8005	QETN1EM-476Z	E CAP.	47μF 25V M
	C8010-11	QCB31HK-472Z	C CAP.	4700pF 50V K
	C8019	QETN1CM-107Z	E CAP.	100μF 16V M

⚠	Symbol No.	Part No.	Part Name	Description
	CAPACITOR			
	C8021	QCZ0120-104Z	C CAP.	0.1μF 25V Z
	C8022	QETN1EM-476Z	E CAP.	47μF 25V M
	C8023	QCZ0120-104Z	C CAP.	0.1μF 25V Z
⚠	C8901	QFZ9040-474	M.F.CAPACITOR	0.47μFAC275V M
	COIL			
	L8001	QQR0716-001Z	LEAD CORE	
	L8002-03	QQL211K-5R6Y	PEAKING COIL	5.6μH
	L8010-11	QQL211K-270Y	PEAKING COIL	27μH
	L8012	QQR0716-001Z	LEAD CORE	
	DIODE			
	D8007	P1241-04	C.D.S.	
	D8008	1SS133-T2	SI.DIODE	
	D8009	SLR-342MG-T16	L.E.D.(GRN)	
	D8010	SPR-39MVWF	L.E.D.	
	D8011	1SS133-T2	SI.DIODE	
	D8012	SLR-342DU-T16	L.E.D.(ORG)	
	D8013	SLR-342YY-T16	L.E.D.(YLW)	
	D8014	MTZJ6.8A-T2	ZENER DIODE	
	D8018	MTZJ5.1B-T2	ZENER DIODE	
	TRANSISTOR			
	Q8001	2SA1015/YG/-T	SI.TRANSISTOR	
	Q8002	DTC144ESA-T	DIGI.TRANSISTOR	
	Q8003-04	DTA144ESA-T	DIGI.TRANSISTOR	
	Q8005-07	DTC144ESA-T	DIGI.TRANSISTOR	
	IC			
	IC8001	GP1U281Q	IFR DETECT UNIT	
	OTHERS			
		CEMG002-001Z	FUSE CLIP	
		LC30596-001B-C	LED HOLDER	
		CM35921-005-H	CDS HOLDER	
	CN8002	QGF1216C1-25	FFC CONNECTOR	
⚠	F8901	QMF51D2-3R15J1	FUSE	3.15A
	J8001	QMS3004-C01	HEADPHONE JACK	
	J8003	QNZ0453-001	AV JACK	
⚠	LF8901	QQR1095-001	LINE FILTER	
⚠	LF8902	QQR1095-001	LINE FILTER	
	S8001	QSW0619-003Z	PUSH SWITCH	MENU
	S8002	QSW0619-003Z	PUSH SWITCH	CH DOWN
	S8003	QSW0619-003Z	PUSH SWITCH	CH UP
⚠	S8901	QSW0824-001	PUSH SWITCH	MAIN POWER

BBE PW BOARD ASS'Y (SMD0A001A-U2)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R0101-02	QRE141J-223Y	C R	22kΩ 1/4W J
	R0106-07	QRE141J-223Y	C R	22kΩ 1/4W J
	R0108-09	QRE141J-103Y	C R	10kΩ 1/4W J
	R0113	QRE141J-103Y	C R	10kΩ 1/4W J
	R0116	QRE141J-273Y	C R	27kΩ 1/4W J
	R0117	QRE141J-822Y	C R	8.2kΩ 1/4W J
	R0118	QRE141J-273Y	C R	27kΩ 1/4W J
	R0119	QRE141J-822Y	C R	8.2kΩ 1/4W J
	CAPACITOR			
	C0101	QFLC1HJ-332Z	M CAP.	3300pF 50V J
	C0102	QFLC1HJ-333Z	M CAP.	0.033μF 50V J
	C0103	QENC1HM-475Z	BP E CAP.	4.7μF 50V M
	C0104	QETN1HM-106Z	E CAP.	10μF 50V M
	C0105	QETN1EM-476Z	E CAP.	47μF 25V M
	C0107	QFV71HJ-104Z	MF CAP.	0.1μF 50V J
	C0108	QFLC1HJ-332Z	M CAP.	3300pF 50V J
	C0109	QFLC1HJ-333Z	M CAP.	0.033μF 50V J
	C0110	QENC1HM-475Z	BP E CAP.	4.7μF 50V M
	C0112	QETN1HM-476Z	E CAP.	47μF 50V M
	C0114-15	QETN1HM-106Z	E CAP.	10μF 50V M
	IC			
	IC0101	NJM2150AD	I.C.(MONO-ANA)	
	OTHERS			
	CN0001	QGB3501K1-40	PLUG	

IF PW BOARD ASS'Y (SMD0F003A-U2)

Refer to PARTS LIST in page 48 for this P.W. board.

AV TERMINAL PW BOARD ASS'Y (SMD0J003A-U2)

Refer to PARTS LIST in page 49 for this P.W. board.

SUB MICON & AUTO PANORAMA PW BOARD (SMD0W003A-U3)

Refer to PARTS LIST in page 49 for this P.W. board.

100Hz PW BOARD (SMD0Z006A-U3)

⚠	Symbol No.	Part No.	Part Name	Description
	RESISTOR			
	R0001-02	NRSA02J-101X	MG R	100Ω 1/10W J
	R0004	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0005	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0101	NRSA02J-101X	MG R	100Ω 1/10W J
	R0102	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0103	NRSA02J-331X	MG R	330Ω 1/10W J
	R0104	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0105	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0106	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0107	NRSA02J-331X	MG R	330Ω 1/10W J
	R0108	NRSA02J-181X	MG R	180Ω 1/10W J
	R0109-10	NRSA02J-101X	MG R	100Ω 1/10W J
	R0111	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0112	NRSA02J-101X	MG R	100Ω 1/10W J
	R0113	NRSA02J-471X	MG R	470Ω 1/10W J
	R0114	NRSA02J-221X	MG R	220Ω 1/10W J
	R0121	NRSA02J-101X	MG R	100Ω 1/10W J
	R0122	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0123	NRSA02J-331X	MG R	330Ω 1/10W J
	R0124	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0125	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0126	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0127	NRSA02J-271X	MG R	270Ω 1/10W J
	R0128	NRSA02J-181X	MG R	180Ω 1/10W J
	R0129	NRSA02J-101X	MG R	100Ω 1/10W J
	R0130	NRSA02J-330X	MG R	33Ω 1/10W J
	R0131	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0132	NRSA02J-101X	MG R	100Ω 1/10W J
	R0133	NRSA02J-471X	MG R	470Ω 1/10W J
	R0134	NRSA02J-221X	MG R	220Ω 1/10W J
	R0141	NRSA02J-101X	MG R	100Ω 1/10W J
	R0142	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0143	NRSA02J-331X	MG R	330Ω 1/10W J
	R0144	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0145	NRSA02J-473X	MG R	47kΩ 1/10W J
	R0146	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0147	NRSA02J-271X	MG R	270Ω 1/10W J
	R0148	NRSA02J-181X	MG R	180Ω 1/10W J
	R0149	NRSA02J-101X	MG R	100Ω 1/10W J
	R0150	NRSA02J-150X	MG R	15Ω 1/10W J
	R0151	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0152	NRSA02J-101X	MG R	100Ω 1/10W J
	R0153	NRSA02J-471X	MG R	470Ω 1/10W J
	R0154	NRSA02J-221X	MG R	220Ω 1/10W J
	R0155	NRSA02J-100X	MG R	10Ω 1/10W J
	R0156	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0157	NRSA02J-560X	MG R	56Ω 1/10W J
	R0158	NRSA02J-680X	MG R	68Ω 1/10W J
	R0159	NRSA02J-101X	MG R	100Ω 1/10W J
	R0160	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0161	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0162	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0163	NRSA02J-181X	MG R	180Ω 1/10W J
	R0164	NRSA02J-680X	MG R	68Ω 1/10W J
	R0165	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0171	NRSA02J-101X	MG R	100Ω 1/10W J
	R0172	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0173	NRSA02J-182X	MG R	1.8kΩ 1/10W J
	R0174	NRSA02J-560X	MG R	56Ω 1/10W J
	R0175	NRSA02J-105X	MG R	1MΩ 1/10W J
	R0176	NRSA02J-681X	MG R	680Ω 1/10W J
	R0177	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0178	NRSA02J-101X	MG R	100Ω 1/10W J
	R0179	NRSA02J-471X	MG R	470Ω 1/10W J
	R0180	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0181-82	NRSA02F-392X	MG R	3.9kΩ 1/10W F
	R0183-84	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0185	NRSA02F-392X	MG R	3.9kΩ 1/10W F
	R0186	NRSA02F-332X	MG R	3.3kΩ 1/10W F
	R0187	NRSA02J-101X	MG R	100Ω 1/10W J
	R0188	NRSA02J-563X	MG R	56kΩ 1/10W J

RESISTOR

Δ	Symbol No.	Part No.	Part Name	Description
	R0189	NRSA02J-470X	MG R	47Ω 1/10W J
	R0190	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0191	NRSA02J-221X	MG R	220Ω 1/10W J
	R0192	NRSA02J-220X	MG R	22Ω 1/10W J
	R0193	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0201-16	NRSA02J-101X	MG R	100Ω 1/10W J
	R0221-36	NRSA02J-101X	MG R	100Ω 1/10W J
	R0303-18	NRSA02J-101X	MG R	100Ω 1/10W J
	R0401	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0403	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0404	NRSA02J-222X	MG R	2.2kΩ 1/10W J
	R0406	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0408	NRSA02J-561X	MG R	560Ω 1/10W J
	R0409	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0411	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0412	NRSA02J-561X	MG R	560Ω 1/10W J
	R0413	NRSA02J-101X	MG R	100Ω 1/10W J
	R0415	NRSA02J-151X	MG R	150Ω 1/10W J
	R0417	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0418	NRSA02J-220X	MG R	22Ω 1/10W J
	R0419	NRSA02J-101X	MG R	100Ω 1/10W J
	R0420	NRSA02J-471X	MG R	470Ω 1/10W J
	R0425	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0426	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0428	NRSA02F-562X	MG R	5.6kΩ 1/10W F
	R0429	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0431	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0432	NRSA02J-561X	MG R	560Ω 1/10W J
	R0433	NRSA02J-101X	MG R	100Ω 1/10W J
	R0435	NRSA02J-151X	MG R	150Ω 1/10W J
	R0437	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0438	NRSA02J-220X	MG R	22Ω 1/10W J
	R0439	NRSA02J-101X	MG R	100Ω 1/10W J
	R0440	NRSA02J-471X	MG R	470Ω 1/10W J
	R0441	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0442	NRSA02F-562X	MG R	5.6kΩ 1/10W F
	R0443	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0451	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0452	NRSA02J-561X	MG R	560Ω 1/10W J
	R0453	NRSA02J-101X	MG R	100Ω 1/10W J
	R0455	NRSA02J-151X	MG R	150Ω 1/10W J
	R0457	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0458	NRSA02J-220X	MG R	22Ω 1/10W J
	R0459	NRSA02J-101X	MG R	100Ω 1/10W J
	R0460	NRSA02J-471X	MG R	470Ω 1/10W J
	R0461	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0462	NRSA02F-5231X	MG R	5.23kΩ 1/10W F
	R0463	NRSA02F-333X	MG R	33kΩ 1/10W F
	R0471	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0472	NRSA02J-391X	MG R	390Ω 1/10W J
	R0473	NRSA02J-101X	MG R	100Ω 1/10W J
	R0475	NRSA02J-330X	MG R	33Ω 1/10W J
	R0476	NRSA02J-122X	MG R	1.2kΩ 1/10W J
	R0477	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0478	NRSA02J-220X	MG R	22Ω 1/10W J
	R0479	NRSA02J-101X	MG R	100Ω 1/10W J
	R0480	NRSA02J-221X	MG R	220Ω 1/10W J
	R0486	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0487	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0488	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0489	NRSA02J-562X	MG R	5.6kΩ 1/10W J
	R0491-92	NRSA02J-102X	MG R	1kΩ 1/10W J
	R0501	NRSA02J-104X	MG R	100kΩ 1/10W J
	R0504	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0505	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0506	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0507	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0512	NRSA02J-103X	MG R	10kΩ 1/10W J
	R0514-15	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0516	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0602-03	NRSA02J-680X	MG R	68Ω 1/10W J
	R0604	QRN143J-221X	C R	220Ω 1/4W J

RESISTOR

Δ	Symbol No.	Part No.	Part Name	Description
	R0606	NRSA02J-680X	MG R	68Ω 1/10W J
	R0607-08	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0609	NRSA02J-100X	MG R	10Ω 1/10W J
	R0610	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0611	NRSA02J-100X	MG R	10Ω 1/10W J
	R0612-13	NRSA02J-560X	MG R	56Ω 1/10W J
	R0614	NRSA02J-100X	MG R	10Ω 1/10W J
	R0615	NRSA02J-822X	MG R	8.2kΩ 1/10W J
	R0616	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0704	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0705-06	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0708	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0709	NRVA02D-822X	MF R	8.2kΩ 1/10W D
	R0714	NRVA02D-123X	MF R	12kΩ 1/10W D
	R0715	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0716	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0717	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0718	NRSA02J-153X	MG R	15kΩ 1/10W J
	R0719	NRSA02J-472X	MG R	4.7kΩ 1/10W J
	R0720	NRSA02J-333X	MG R	33kΩ 1/10W J
	R0721	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0723	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0724	NRSA02J-272X	MG R	2.7kΩ 1/10W J
	R0726	NRSA02J-563X	MG R	56kΩ 1/10W J
	R0727	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0731	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	R0733	NRSA02J-154X	MG R	150kΩ 1/10W J
	R0734	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0736	NRSA02J-123X	MG R	12kΩ 1/10W J
	R0737	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0738	NRSA02J-273X	MG R	27kΩ 1/10W J
	R0739	NRSA02J-332X	MG R	3.3kΩ 1/10W J
	R0740	NRSA02J-682X	MG R	6.8kΩ 1/10W J
	R0741	NRSA02J-223X	MG R	22kΩ 1/10W J
	R0742	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0743	NRSA02J-683X	MG R	68kΩ 1/10W J
	R0744	NRSA02J-224X	MG R	220kΩ 1/10W J
	R0745	NRSA02J-563X	MG R	56kΩ 1/10W J

CAPACITOR

Δ	Symbol No.	Part No.	Part Name	Description
	C0001	NEH71CM-476X	E CAP.	47μF 16V M
	C0002	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0003	NEH71CM-476X	E CAP.	47μF 16V M
	C0004	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0005	NEH71CM-476X	E CAP.	47μF 16V M
	C0006	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0007	NEH71CM-476X	E CAP.	47μF 16V M
	C0008	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0009	NDC21HJ-121X	C CAP.	120pF 50V J
	C0011	NDC21HJ-270X	C CAP.	27pF 50V J
	C0102	NDC21HJ-121X	C CAP.	120pF 50V J
	C0103	NDC21HJ-680X	C CAP.	68pF 50V J
	C0104	NEN51EM-106X	CHIP AL BP E CAP	10μF 25V M
	C0105	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C0106	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0107	NDC21HJ-390X	C CAP.	39pF 50V J
	C0108	NEH71CM-476X	E CAP.	47μF 16V M
	C0109	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0110	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0111	NDC21HJ-181X	C CAP.	180pF 50V J
	C0112-14	NEH71CM-106X	E CAP.	10μF 16V M
	C0122	NDC21HJ-121X	C CAP.	120pF 50V J
	C0123	NDC21HJ-680X	C CAP.	68pF 50V J
	C0124	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0125	NCF21HZ-224X	C CAP.	0.22μF 50V Z
	C0126	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0142	NDC21HJ-121X	C CAP.	120pF 50V J
	C0143	NDC21HJ-680X	C CAP.	68pF 50V J
	C0144	NEN51HM-105X	CHIP AL BP E CAP	1μF 50V M
	C0145	NCF21HZ-224X	C CAP.	0.22μF 50V Z

CAPACITOR

Δ	Symbol No.	Part No.	Part Name	Description
	C0146	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0151	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0152	QETN0JM-228Z	E CAP.	2200μF 6.3V M
	C0153	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0154-55	NEH71HM-105X	E CAP.	1μF 50V M
	C0156-57	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0161-62	NEH71CM-106X	E CAP.	10μF 16V M
	C0163	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0164	NEH71CM-106X	E CAP.	10μF 16V M
	C0165-80	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0181-82	NDC21HJ-8R0X	C CAP.	8.0pF 50V J
	C0191	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0192	NEH71CM-106X	E CAP.	10μF 16V M
	C0193	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0194	NRSA02J-223X	MG R	22kΩ 1/10W J
	C0201-02	QETN0JM-477Z	E CAP.	470μF 6.3V M
	C0203-07	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0208-09	NDC21HJ-150X	C CAP.	15pF 50V J
	C0301-19	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0401	NEH71CM-106X	E CAP.	10μF 16V M
	C0402	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0403	NEH71CM-106X	E CAP.	10μF 16V M
	C0404	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0405-06	NDC21HJ-120X	C CAP.	12pF 50V J
	C0408-13	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0414	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0415	NEH71HM-105X	E CAP.	1μF 50V M
	C0416	NEH71CM-106X	E CAP.	10μF 16V M
	C0417	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0420	NEH71HM-105X	E CAP.	1μF 50V M
	C0422	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0424	NEH71HM-105X	E CAP.	1μF 50V M
	C0425	NEH71CM-476X	E CAP.	47μF 16V M
	C0426	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0432	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0434	NEH71HM-105X	E CAP.	1μF 50V M
	C0435	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0452	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0454	NEH71HM-105X	E CAP.	1μF 50V M
	C0455	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0472	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	C0474	NEH71HM-105X	E CAP.	1μF 50V M
	C0475-76	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0477	NDC21HJ-561X	C CAP.	560pF 50V J
	C0501	NCB21HK-333X	C CAP.	0.033μF 50V K
	C0504	NCB21HK-562X	C CAP.	5600pF 50V K
	C0505-06	NCB21HK-393X	C CAP.	0.039μF 50V K
	C0601	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0602	NEH71CM-476X	E CAP.	47μF 16V M
	C0603	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0605	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0606	NDC21HJ-681X	C CAP.	680pF 50V J
	C0701	NCB21HK-102X	C CAP.	1000pF 50V K
	C0706	NCB21EK-154X	C CAP.	0.15μF 25V K
	C0707	NCB21EK-104X	C CAP.	0.1μF 25V K
	C0708	NCB21HK-103X	C CAP.	0.01μF 50V K
	C0709	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0710	NEH71CM-106X	E CAP.	10μF 16V M
	C0711	NCF21EZ-104X	C CAP.	0.1μF 25V Z
	C0712	NEH71CM-106X	E CAP.	10μF 16V M
	C0713	NCB21HK-223X	C CAP.	0.022μF 50V K

COIL

Δ	Symbol No.	Part No.	Part Name	Description
	L0001-05	NQL02BJ-4R7X	COIL	4.7μH
	L0101	NQL011K-3R3X	COIL	3.3μH
	L0121	NQL011K-3R3X	COIL	3.3μH
	L0141	NQL011K-3R3X	COIL	3.3μH
	L0161	NQL02BJ-100X	COIL	10μH
	L0162	NQL02BJ-3R3X	COIL	3.3μH
	L0163-64	NQL02BJ-100X	COIL	10μH
	L0201-02	NQL02BJ-100X	COIL	10μH
	L0301-02	NQL02BJ-4R7X	COIL	4.7μH

DIODE

Δ	Symbol No.	Part No.	Part Name	Description
	D0001	MA152WK-X	SI.DIODE	
	D0101-02	MA3068/M/-X	ZENER DIODE	
	D0103	MA3043-X	ZENER DIODE	
	D0104-05	MA111-X	SI.DIODE	
	D0106	MA3068/M/-X	ZENER DIODE	
	D0107	MA111-X	SI.DIODE	
	D0401	MA111-X	SI.DIODE	
	D0403-10	MA3068/M/-X	ZENER DIODE	
	D0411-13	MA111-X	SI.DIODE	
	D0414	MA3068/M/-X	ZENER DIODE	
	D0701	MA111-X	SI.DIODE	

TRANSISTOR

Δ	Symbol No.	Part No.	Part Name	Description
	Q0101	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0102	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0103	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0104	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0105	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0106-07	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0108	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0109-10	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0111	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0121	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0122	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0123	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0124	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0141	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0142	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0143	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0144	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0151-52	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0153	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0154	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0155	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0402	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0403-05	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0411	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0412-15	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0431	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0432-35	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0451	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0452-55	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0471	2SA1162/YG/-X	SI.TRANSISTOR	
	Q0472-74	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0501	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0601	2SC2712/YG/-X	SI.TRANSISTOR	
	Q0702	2SC2712/YG/-X	SI.TRANSISTOR	

IC

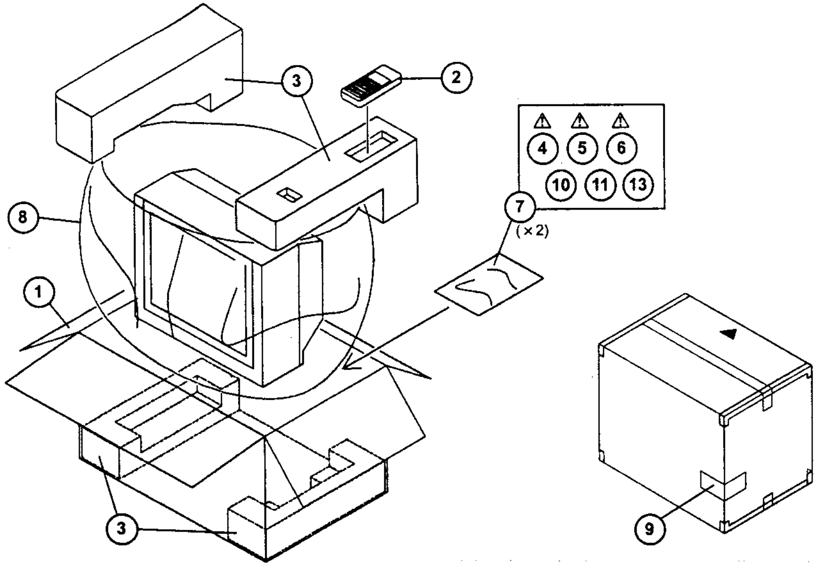
Δ	Symbol No.	Part No.	Part Name	Description
	IC0101	SDA9206	I C	
	IC0102	TC4W66F-X	I.C.(DIGI-MOS)	
	IC0201	SDA9400	I C	
	IC0301	JCC5043	I C	
	IC0401	DDP3310B/E4-W	I C	
	IC0601	SN74LV04ANS-X	I C	
	IC0602	TC74AC00F-X	I.C.(DIGI-MOS)	
	IC0603	MN1382/Q/-X	I.C.(MONO-ANA)	
	IC0701-02	NJM4556AM-XE	I C	

OTHERS

Δ	Symbol No.	Part No.	Part Name	Description
	LC0001-04	CE42482-103Y	EMI FILTER	
	LC0101-03	CE42482-470Y	EMI FILTER	
	LC0104	CE42126-101Y	EMI FILTER	
	LC0201	CE42482-103Y	EMI FILTER	
	LC0401-11	CE42126-220Y	EMI FILTER	
	LC0601	CE42126-101Y	EMI FILTER	
	LC0602	CE42482-470Y	EMI FILTER	
	LC0603	CE42126-101Y	EMI FILTER	
	X0101	QAX0549-001Z	X TAL	
	X0201	QAX0359-001Z	CRYSTAL	
	X0401	QAX0548-001Z	X TAL	
	Y0001-14	NRSA02J-0R0X	MG R	0.0Ω 1/10W J
	Y0017-28	NRSA02J-0R0X	MG R	0.0Ω 1/10W J

AV-28WFX1EUG / AV-28WFX1EUS

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description
	AV-28WFX1EUG			
	1	AEM1002-068-E	PACKING CASE	
	2	RM-C50-1C	REMOCON UNIT	
	3	LC10722-002A-U	CUSHION ASSY	4pcs in 1set
⚠	4	LCT0616-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
⚠	5	LCT0617-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
⚠	6	LCT0618-001A-U	INST BOOK	For POL/CZE/HUN/ROM/BUL/RUS
	7	AEM3021-002-E	DOCUMENT BAGS	(×2)
	8	AEM1047-002-E	POLY BAG	
	9	AEM1039-068-E	EURO LABEL	
	10	BT-54013-1E	WARRANTY CARD	
	11	2832WFX1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)
	13	AEM1050-001-E	X-RAY CARD	
	AV-28WFX1EUS			
	1	AEM1002-068-E	PACKING CASE	
	2	RM-C50-1C	REMOCON UNIT	
	3	LC10722-002A-U	CUSHION ASSY	4pcs in 1set
⚠	4	LCT0616-001A-U	INST BOOK	For ENG/GER/FRA/NED/ITA/ESP
⚠	5	LCT0617-001A-U	INST BOOK	For FIN/NOR/DEN/SWE/POR
⚠	6	LCT0618-001A-U	INST BOOK	For POL/CZE/HUN/ROM/BUL/RUS
	7	AEM3021-002-E	DOCUMENT BAGS	(×2)
	8	AEM1047-002-E	POLY BAG	
	9	AEM1039-092-E	EURO LABEL	
	10	BT-54013-1E	WARRANTY CARD	
	11	2832WFX1-HSAE	S.DIAGRAM	ONLY ITALY(SERVICE)
	13	AEM1050-001-E	X-RAY CARD	

JVC
VICTOR COMPANY OF JAPAN, LIMITED
TELEVISION RECEIVER DIVISION 1106 Heta, Iwai-city, Ibaraki-prefecture, 306-0698, Japan

Printed in Japan
VP 0003
DP3052

AV-32WFX1EUG / AV-32WFX1EUS
AV-28WFX1EUG / AV-28WFX1EUS
STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1. SAFETY

The components identified by the⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	:PAL Colour bar signal
(2)Setting positions of each knob/button and variable resistor	:Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ/V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div :V ⇒ 5mS/div :Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value

No unit	:[Ω]
K	:[KΩ]
M	:[MΩ]

●Rated allowable power

No indication	:1/10[W]
Others	:As specified

●Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflammable resistor
FR	:Fusible resistor

*Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value

1 or higher	:[pF]
less than 1	:[μF]

●Withstand voltage

No indication	:DC50[V]
AC indicated	:AC withstand voltage [V]
Others	:DC withstand voltage [V]

*Electrolytic Capacitors
47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●Type

No indication	:Ceramic capacitor
MY	:Mylar capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capacitor

(3)Coils

No unit	:[μH]
Others	:As specified

(4)Power Supply

═══	:B1
▬▬▬▬	:B2
▬□▬□	:9V
□□□□	:5V

*Respective voltage values are indicated

(5)Test point

⦿	:Test point
○	:Only test point display

(6)Connecting method

□	:Connector
○	:Wrapping or soldering
→≻ →⊁	:Receptacle

(7)Ground symbol

⊥	:LIVE side ground
⊥	:ISOLATED(NEUTRAL) side ground
⏚	:EARTH ground
▽	:DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⊥) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇**Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

Mar. 2000 No.51700

AV-32WFX1EUG
AV-32WFX1EUS
AV-28WFX1EUG
AV-28WFX1EUS

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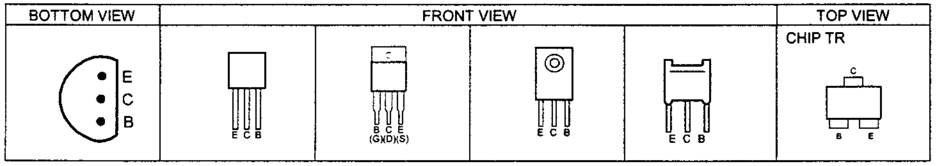
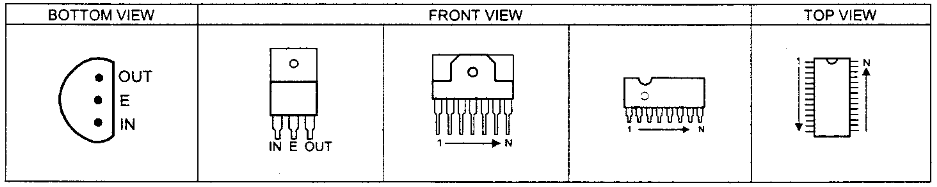
SEMICONDUCTOR SHAPES

TRANSISTOR



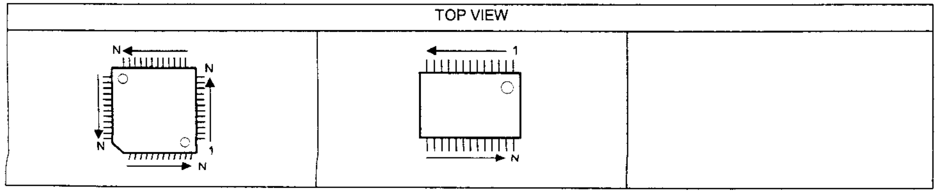
BOTTOM VIEW
FRONT VIEW
TOP VIEW
E
C
B
E C B
B C E
(G)(D)(S)
E C B
E C B
CHIP TR
C
B E

IC



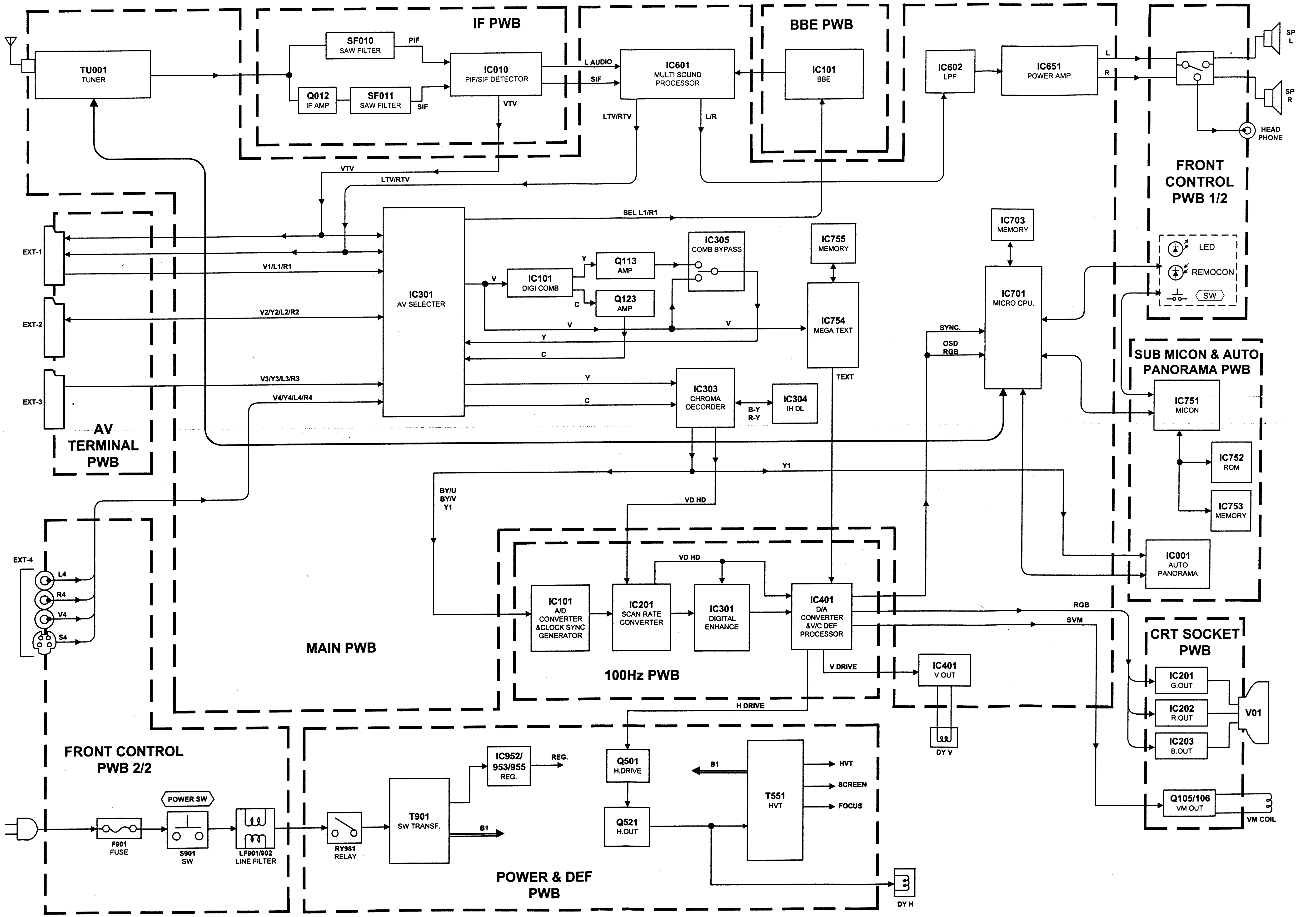
BOTTOM VIEW
FRONT VIEW
TOP VIEW
OUT
E
IN
IN E OUT
1 N
1 N
1 N

CHIP IC



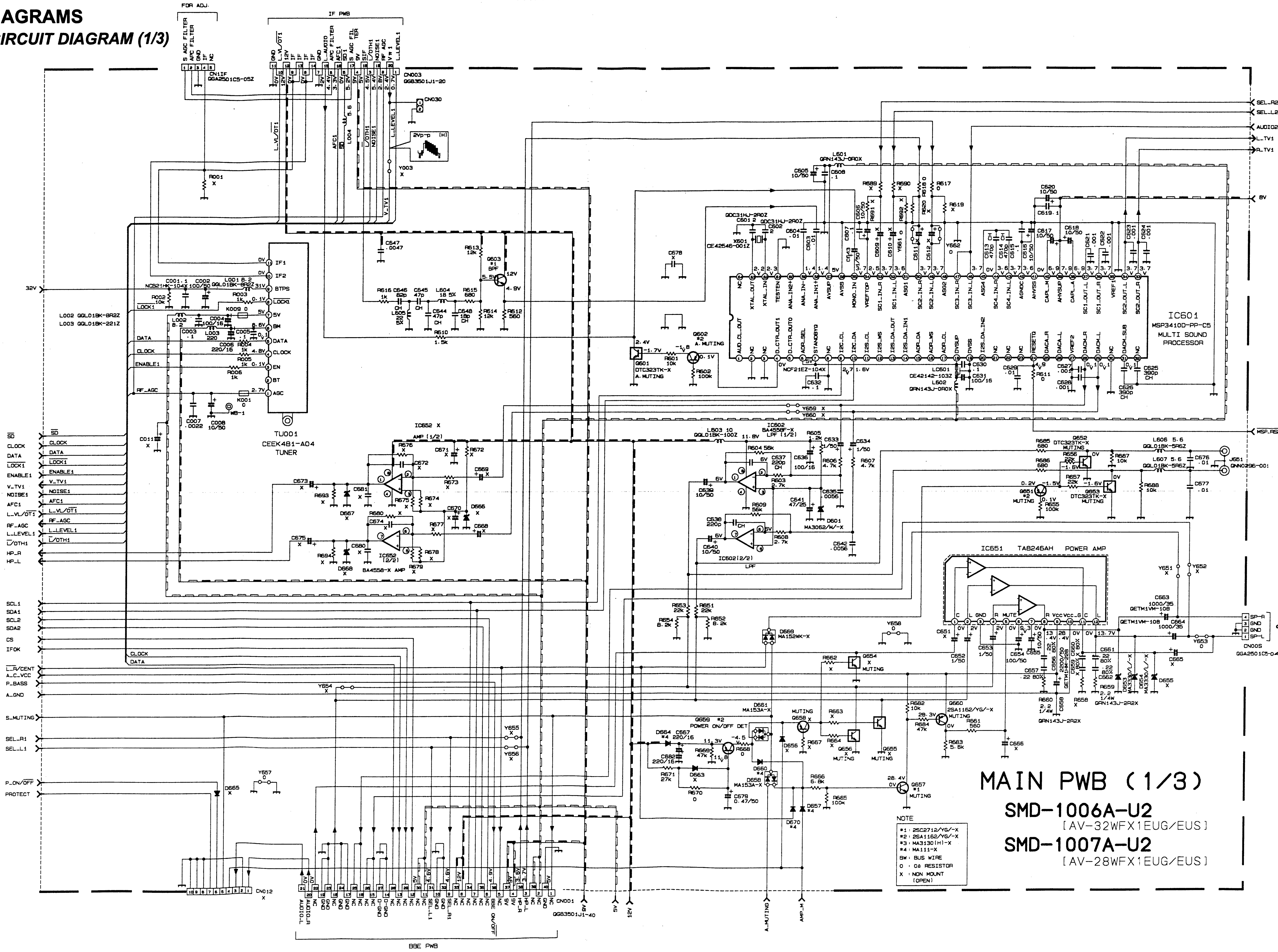
TOP VIEW
N
N
N
N
1
1
N

BLOCK DIAGRAM

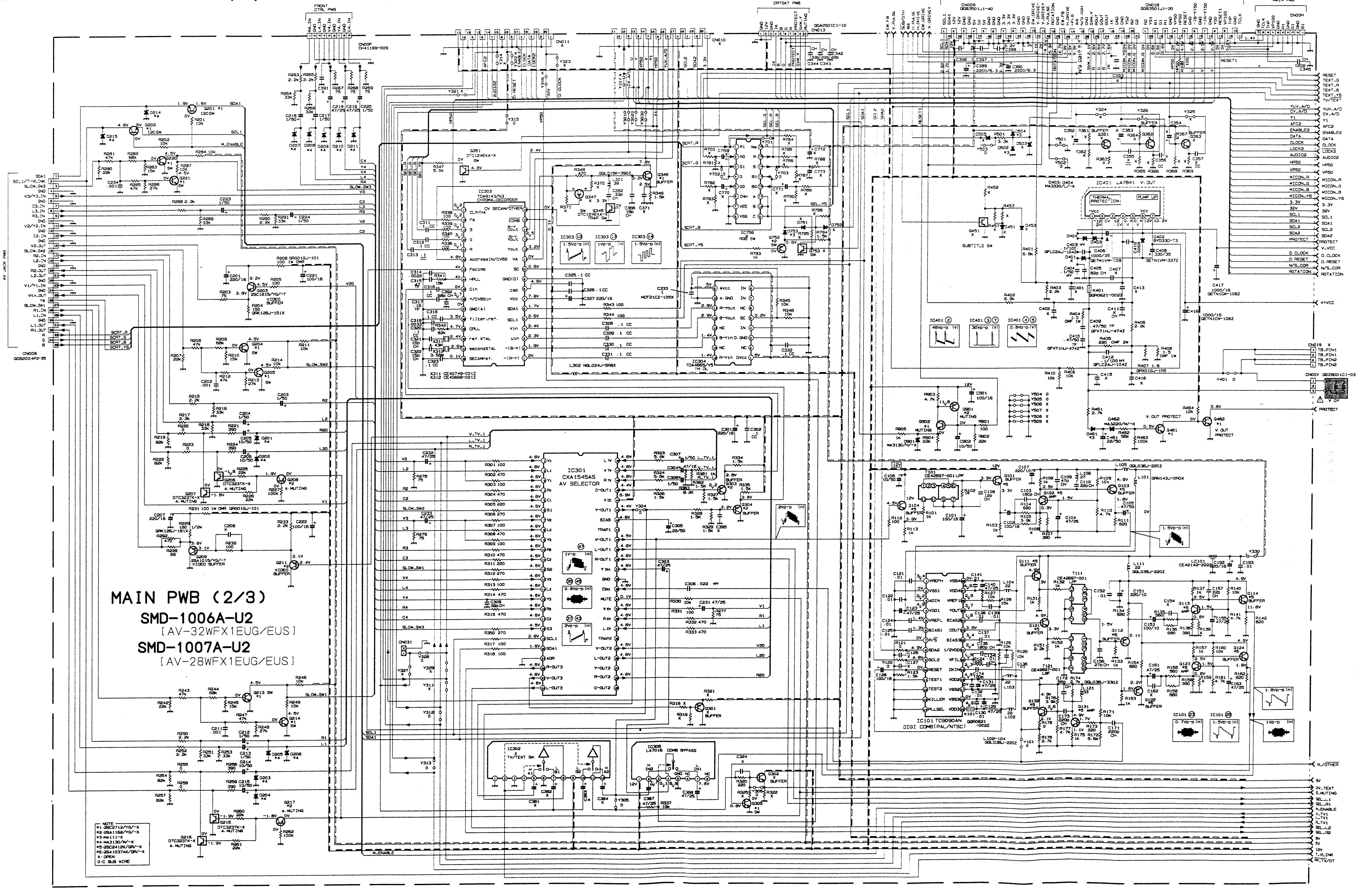

IF PWB
BBE PWB
TU001
TUNER
SF010
SAW FILTER
PIF
Q012
IF AMP
SF011
SAW FILTER
SIF
IC010
PIF/SIF DETECTOR
VTV
L AUDIO
SIF
IC601
MULTI SOUND
PROCESSOR
LTV/RTV
L/R
IC101
BBE
IC602
LPF
IC651
POWER AMP
L
R
SP
L
SP
R
HEAD
PHONE
FRONT
CONTROL
PWB 1/2
LED
REMOCON
SW
VTV
LTV/RTV
SEL L1/R1
EXT-1
EXT-2
EXT-3
V1/L1/R1
V2/Y2/L2/R2
V3/Y3/L3/R3
V4/Y4/L4/R4
IC301
AV SELECTER
V
IC101
DIGI COMB
Y
C
Q113
AMP
Q123
AMP
IC305
COMB BYPASS
V
V
Y
C
IC755
MEMORY
IC754
MEGA TEXT
TEXT
IC703
MEMORY
IC701
MICRO CPU.
SYNC.
OSD
RGB
SUB MICON & AUTO
PANORAMA PWB
IC751
MICON
IC752
ROM
IC753
MEMORY
IC001
AUTO
PANORAMA
Y
C
IC303
CHROMA
DECORDER
B-Y
R-Y
IC304
IH DL
AV
TERMINAL
PWB
Y1
BY/U
BY/V
Y1
VD HD
VD HD
EXT-4
L4
R4
V4
S4
IC101
A/D
CONVERTER
&CLOCK SYNC
GENERATOR
IC201
SCAN RATE
CONVERTER
IC301
DIGITAL
ENHANCE
IC401
D/A
CONVERTER
&V/C DEF
PROCESSOR
RGB
SVM
MAIN PWB
100Hz PWB
V DRIVE
IC401
V.OUT
DY V
CRT SOCKET
PWB
IC201
G.OUT
IC202
R.OUT
IC203
B.OUT
V01
Q105/106
VM OUT
VM COIL
H DRIVE
FRONT CONTROL
PWB 2/2
POWER SW
F901
FUSE
S901
SW
LF901/902
LINE FILTER
RY981
RELAY
T901
SW TRANSF.
B1
IC952/
953/955
REG.
REG.
Q501
H.DRIVE
Q521
H.OUT
B1
T551
HVT
HVT
SCREEN
FOCUS
POWER & DEF
PWB
DY H

CIRCUIT DIAGRAMS

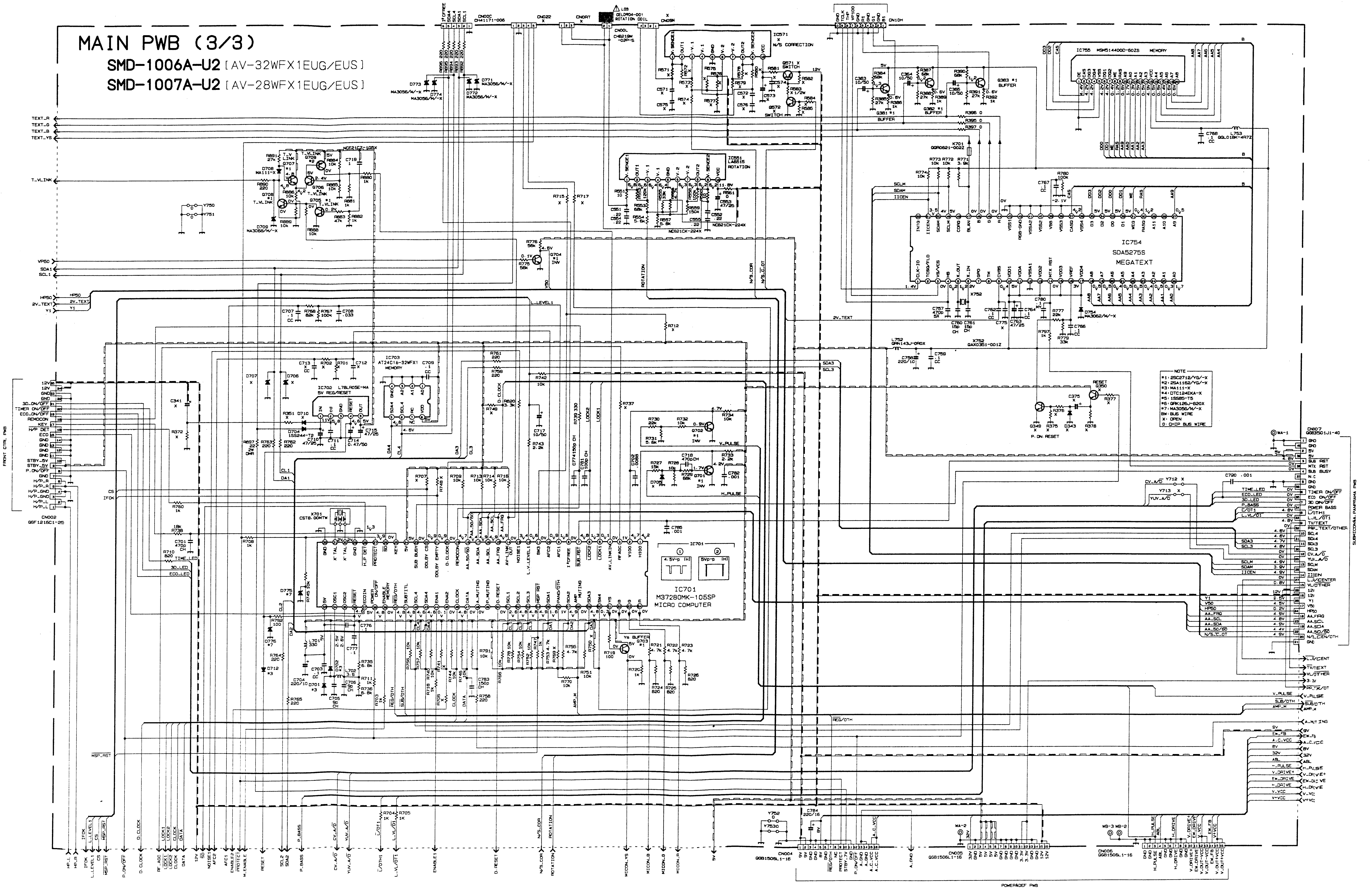
MAIN PWB CIRCUIT DIAGRAM (1/3)


FOR ADJ.
IF PWB
CN1IF
QGA2501C5-05Z
CN003
QGB3501J1-20
CN030
2Vp-p (H)
Y003
R001
TU001
CEEK4B1-A04
TUNER
32V
L002 QQL01BK-8R2Z
L003 QQL01BK-221Z
IC652 X
AMP (1/2)
BA4558-X AMP
IC652 (2/2)
IC601
MSP3410D-PP-C5
MULTI SOUND
PROCESSOR
X601
CE42546-001Z
L601
QRN143J-0R0X
Q601
DTC323TK-X
A. MUTING
Q602
A. MUTING
IC602
BA4558F-X
LPF (1/2)
IC602 (2/2)
LPF
Q651
MUTING
Q652
DTC323TK-X
MUTING
Q653
DTC323TK-X
MUTING
J651
QNN0296-001
IC651 TA8246AH POWER AMP
CN00S
QGA2501C5-04Z
FRONT
CONTROL
PWB
Q654
MUTING
Q655
MUTING
Q656
MUTING
Q657
MUTING
Q658
MUTING
Q659
POWER ON/OFF DET
Q660
2SA1162/YG/-X
MUTING
D661
MA153A-X
D669
MA152WK-X
CN012
CN001
QGB3501J1-40
BBE PWB
SEL_R2
SEL_L2
AUDIO2
L_TV1
R_TV1
8V
MSP_RST
SP-R
GND
GND
SP-L
SD
CLOCK
DATA
LOCK1
ENABLE1
V_TV1
NOISE1
AFC1
L_VL/OT1
RF_AGC
L_LEVEL1
L/OTH1
HP_R
HP_L
SCL1
SDA1
SCL2
SDA2
CS
IFOK
L_R/CENT
A_C_VCC
P_BASS
A_GND
S_MUTING
SEL_R1
SEL_L1
P_ON/OFF
PROTECT
AUDIO_R
AUDIO_L
BBE ON/OFF
A_MUTING
AMP_M
5V
12V
MAIN PWB (1/3)
SMD-1006A-U2
[AV-32WFX1EUG/EUS]
SMD-1007A-U2
[AV-28WFX1EUG/EUS]
NOTE
*1 : 2SC2712/YG/-X
*2 : 2SA1162/YG/-X
*3 : MA3130(H)-X
*4 : MA111-X
BW : BUS WIRE
0 : 0Ω RESISTOR
X : NON MOUNT (OPEN)

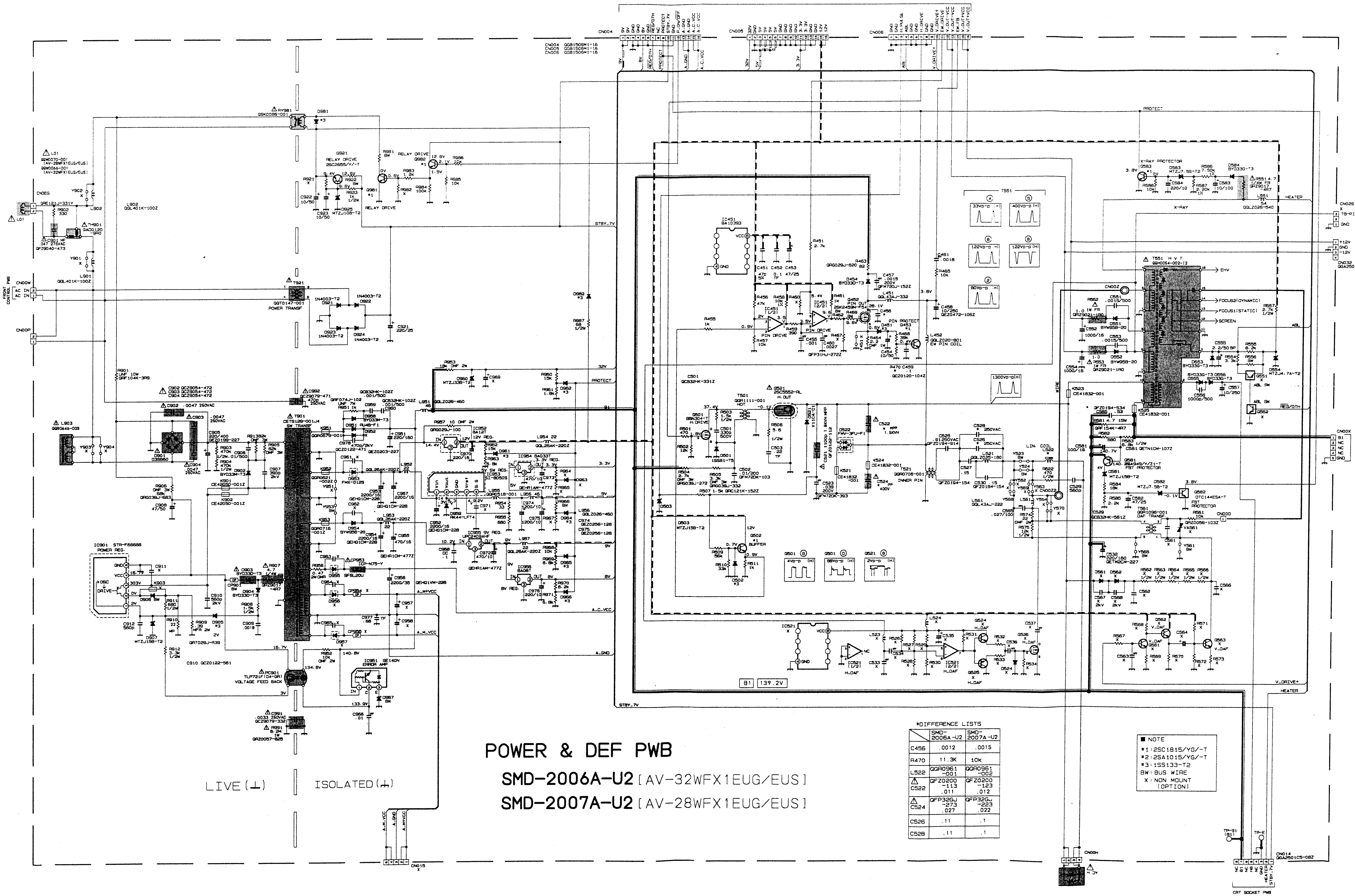
MAIN PWB CIRCUIT DIAGRAM (2/3)


MAIN PWB (2/3)
SMD-1006A-U2
[AV-32WFX1EUG/EUS]
SMD-1007A-U2
[AV-28WFX1EUG/EUS]
NOTE
*1:2SC2712/YG/-X
*2:2SA1162/YG/-X
*3:MA111-X
*4:MA3130/M/-X
*5:2SC2412K/QR/-X
*6:2SA1037AK/QR/-X
X:OPEN
0:C.BUS WIRE
FRONT CTRL PWB
CN00F
CATSKT PWB
100Hz PWB
MAIN PWB
AV JACK PWB
CN008
IC303 TDA9143/N3 CHROMA DECORDER
IC301 CXA1545AS AV SELECTOR
IC304 TDA4665/V5 1H DL
IC756 RGB SW
IC401 LA7841 V.OUT
IC101 TC9090AN DIGI COMB(PAL/NTSC)
IC302 TV/TEXT SW
IC305 LA7016 COMB BYPASS
Q201 I2C SW
Q203 2SC1815/YG/-T VIDEO BUFFER
Q209 2SA1015/YG/-T VIDEO BUFFER
Q211 VIDEO BUFFER
Q207 DTC323TK-X A.MUTING
Q208 DTC323TK-X A.MUTING
Q215 DTC323TK-X A.MUTING
Q216 DTC323TK-X A.MUTING
Q217 A.MUTING
Q345 DTC124EKA-X TRAP SW
Q351 DTC124EKA-X SW
Q346 BUFFER
Q752 BUFFER
Q753 SW
Q901 MUTING
Q902 MUTING
Q461
Q462 V.OUT PROTECT
Q101 BUFFER
Q103 BUFFER
Q109 AMP
Q302 BUFFER
Q303 BUFFER
Q304 BUFFER
Q301 BUFFER
Q305 SW
SUBTITLE SW
THERMAL PROTECTION
PUMP UP
V.OUT PROTECT
T101 CE42697-001 LPF
T111 CE42697-001 LPF
2Vp-p (H)
1.5Vp-p (H)
1Vp-p (H)
0.8Vp-p (H)
48Vp-p (V)
30Vp-p (V)
0.8Vp-p (V)
0.7Vp-p (H)
1.8Vp-p (H)
RESET
TEXT_G
TEXT_R
TEXT_B
TEXT_YS
TV/TEXT
YUV_A/D
CV_A/D
AFC2
ENABLE2
DATA
CLOCK
LOCK2
AUDIO2
HP50
VP50
MICON_R
MICON_G
MICON_B
MICON_YS
3.3V
32V
SCL1
SDA1
SCL2
SDA2
PROTECT
V_VCC
D.CLOCK
D.RESET
N/S_COR
ROTATION
PROTECT
V.DY
TB_PIN1
TB_PIN2
VL/OTHER
9V
2V_TEXT
S_MUTING
SEL_L1
SEL_R1
M_ENABLE
V_TV1
L_TV1
R_TV1
SEL_L2
SEL_R2
8V
5V
12V
T_VLINK
RP_TX/OT
M_ENABLE

MAIN PWB CIRCUIT DIAGRAM (3/3)


MAIN PWB (3/3)
SMD-1006A-U2 [AV-32WFX1EUG/EUS]
SMD-1007A-U2 [AV-28WFX1EUG/EUS]
CN00C CH41171-006
CN022
CN0RT
L03 CELD904-001 ROTATION COIL
CN00L CHB218W-020-S
CN0SN
MAIN PWB
CN10H
IC571 N/S CORRECTION
Q571 SWITCH
Q572 SWITCH
IC551 LA6515 ROTATION
IC755 MSM514400D-60ZS MEMORY
Q381 BUFFER
Q382 BUFFER
Q383 BUFFER
IC754 SDA5275S MEGATEXT
X752
L753 QQL01BK-4R7Z
K701 QQR0621-002Z
TEXT_R
TEXT_G
TEXT_B
TEXT_YS
T_VLINK
VP50
SDA1
SCL1
HP50
2V_TEXT
Y1
IC703 AT24C16-32WFX1 MEMORY
IC702 L78LR05E-MA 5V REG/RESET
Q704 INV
Q702 INV
Q701 INV
V_PULSE
H_PULSE
X701 CSTB.00MTW
IC701 M37280MK-105SP MICRO COMPUTER
Q703 Ys BUFFER
Q350 RESET
P.ON RESET
2V_TEXT
NOTE
*1: 2SC2712/YG/-X
*2: 2SA1162/YG/-X
*3: MA111-X
*4: DTC124EKA-X
*5: 1SS85-T5
*6: GRK126J-820X
*7: MA3056/M/-X
BW: BUS WIRE
X: OPEN
O: CHIP BUS WIRE
FRONT CTRL PWB
CN002 QGF1216C1-25
CN007 QGB3501J1-40
SUBMICON&A PANORAMA PWB
CN004 QGB1506L1-16
CN005 QGB1506L1-16
CN006 QGB1506L1-16
POWER&DEF PWB
MSP_RST
REG/OTH

POWER & DEF PWB CIRCUIT DIAGRAM


MAIN PWB
CN004
CN005
CN006
PROTECT
STBY_7V
RY981
D981
Q921 RELAY DRIVE 2SC2655/Y/-T
Q982 RELAY DRIVE
L01
CNDEG
TH901
L902
L901
CN00W AC IN AC IN
FRONT CONTROL PWB
CN00P
T921 POWER TRANSF
D921 1N4003-T2
D922 1N4003-T2
D923 1N4003-T2
D924 1N4003-T2
L903
D901
T901 SW TRANS
IC901 STR-F6668B POWER REG.
PC901 TLP721F(D4-GR) VOLTAGE FEED BACK
IC951 SE140N ERROR AMP
IC952 BA12T 12V REG.
IC954 BA033T 3.3V REG.
IC953 SI-8050S SW REG.
IC955 UPC2409AHF 9V REG.
IC956 BA08T 8V REG.
IC451 BA10393
IC451 PIN DRIVE
Q452 PIN OUT
Q453 PIN PROTECT
L452 EW PIN COIL
Q501 H.DRIVE
T501 HDT
Q521 2SC5552-RL H.OUT
T521 INNER PIN
L561
T551
T551 H V T
EHV
FOCUS2(DYNAMIC)
FOCUS1(STATIC)
SCREEN
ABL
Q583 X-RAY PROTECTOR
X-RAY
HEATER
CN029
CN032
CN00Z
CN00X
TO FBT
Q581 FBT PROTECTOR
Q582 FBT PROTECTOR
T561 DAF TRANS.
Q502 BUFFER
IC521
H_DAF
V_DAF
B1 139.2V
V_DRIVE+
STBY_7V
CN00H
H DY
CN015
CN014
CRT SOCKET PWB
TP-91 (B1)
TP-E

LIVE(⊥) | ISOLATED(⊥)

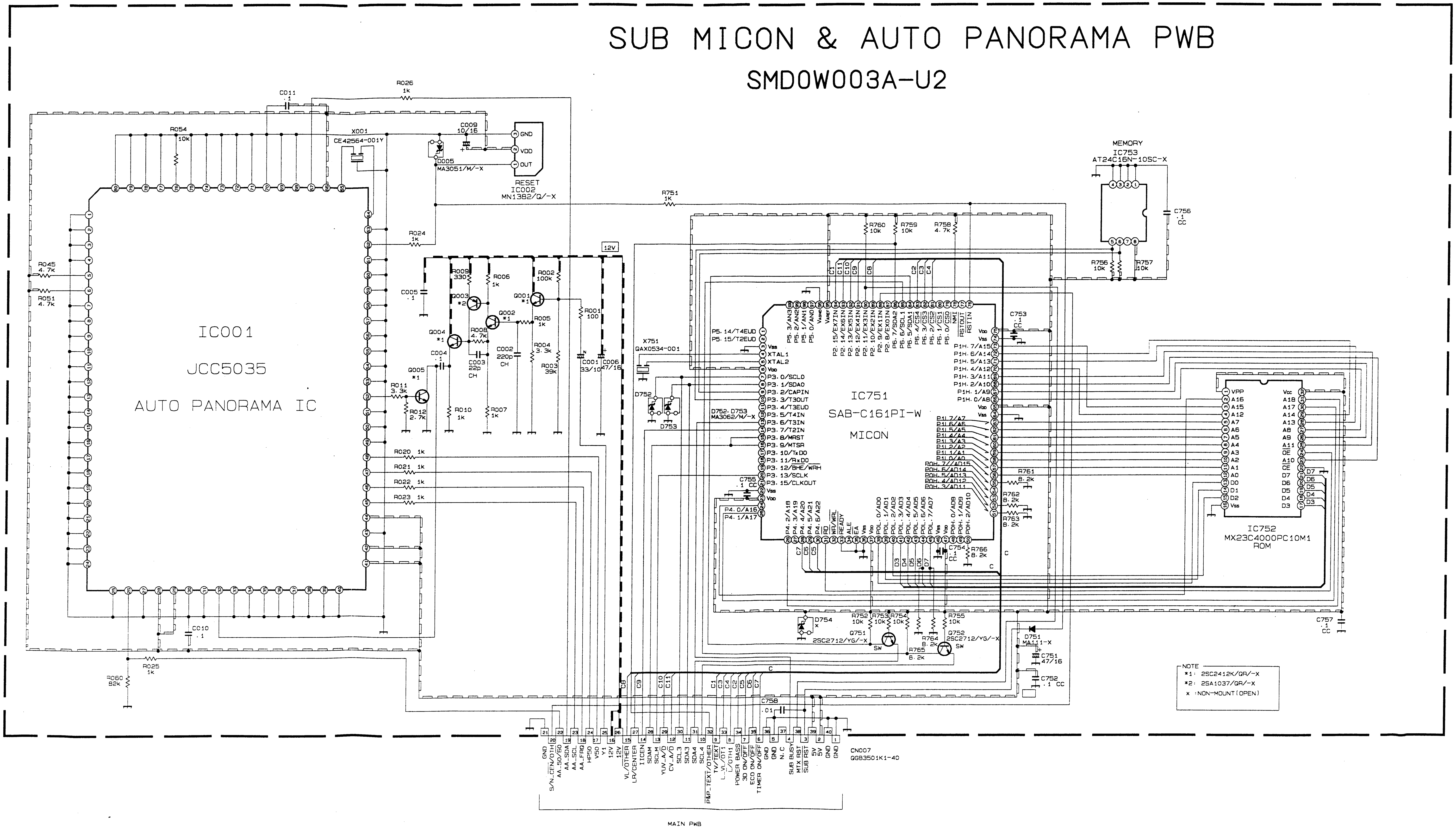
POWER & DEF PWB
SMD-2006A-U2 [AV-32WFX1EUG/EUS]
SMD-2007A-U2 [AV-28WFX1EUG/EUS]

*DIFFERENCE LISTS

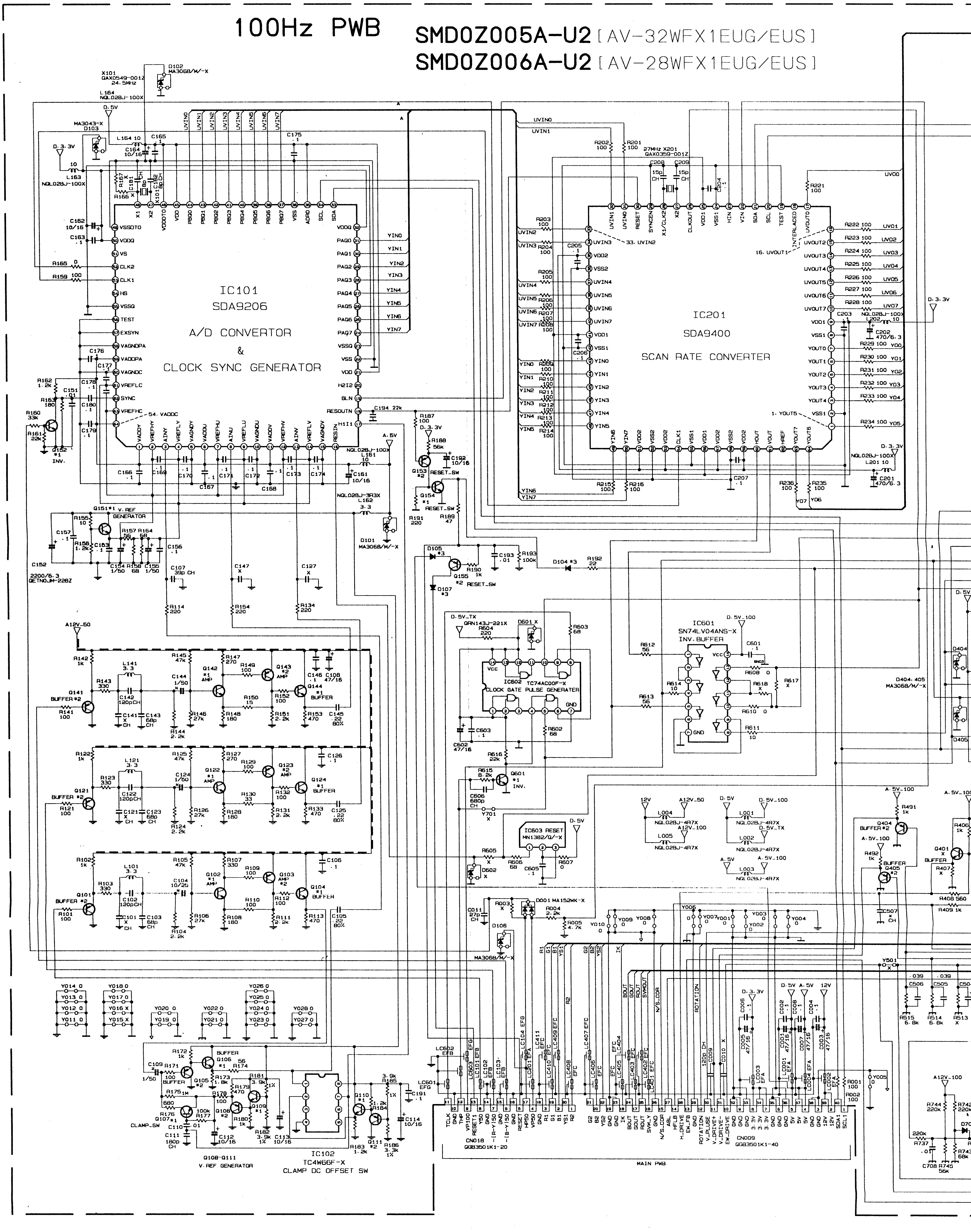
	SMD-2006A-U2	SMD-2007A-U2
C456	.0012	.0015
R470	11.3K	10k
L522	QQR0961 -001	QQR0961 -002
⚠ C522	QFZ0200 -113 .011	QFZ0200 -123 .012
⚠ C524	QFP32GJ -273 .027	QFP32GJ -223 .022
C526	.11	.1
C528	.11	.1

■ NOTE
*1 : 2SC1815/YG/-T
*2 : 2SA1015/YG/-T
*3 : 1SS133-T2
BW : BUS WIRE
X : NON MOUNT (OPTION)

SUB MICON & AUTO PANORAMA PWB CIRCUIT DIAGRAM

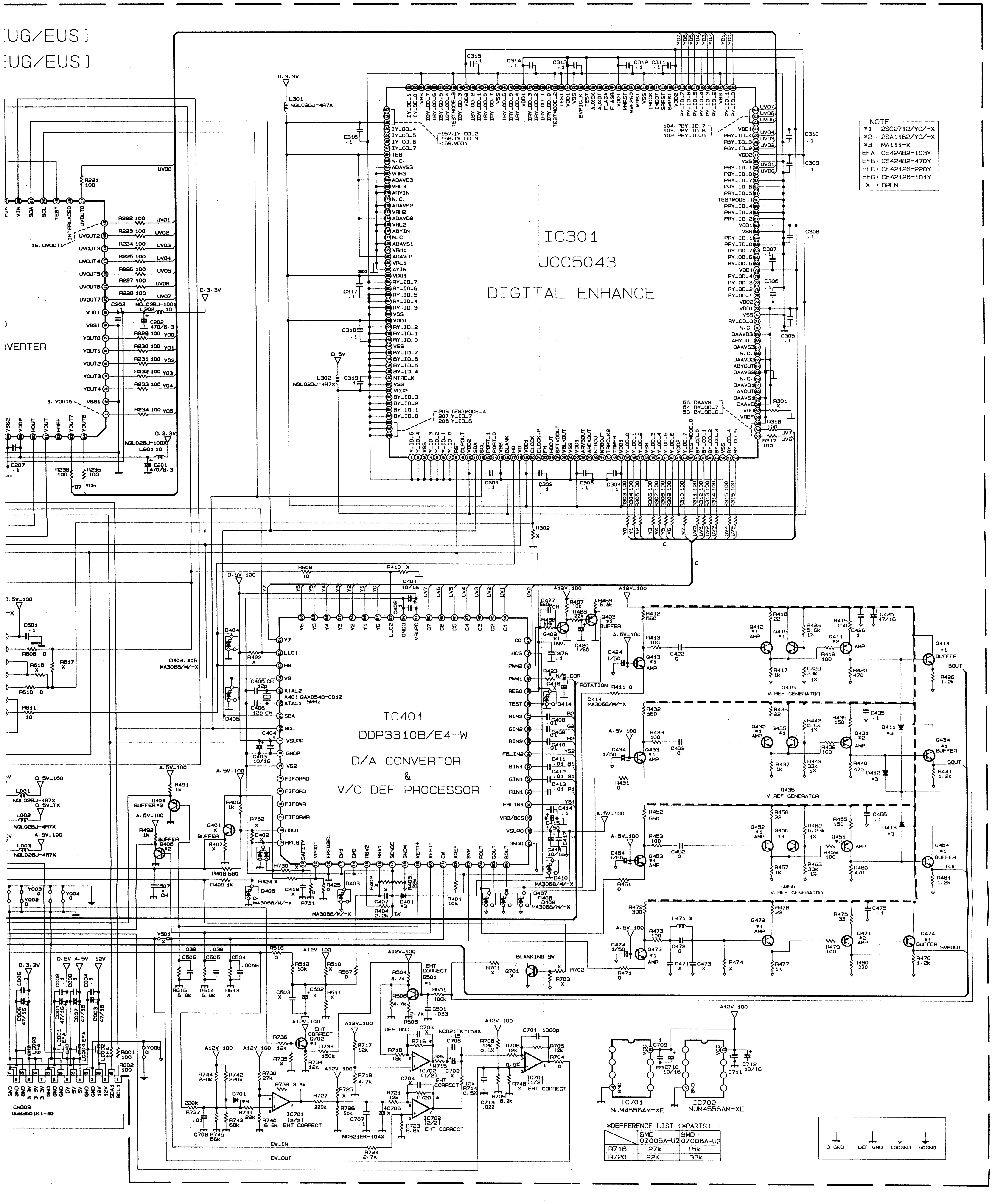

SUB MICON & AUTO PANORAMA PWB
SMD0W003A-U2
IC001
JCC5035
AUTO PANORAMA IC
RESET
IC002
MN1382/Q/-X
X001
CE42564-001Y
D005
MA3051/M/-X
C009
10/16
C011
.1
R026
1k
R054
10k
R024
1k
R045
4.7k
R051
4.7k
R020 1k
R021 1k
R022 1k
R023 1k
R025
1k
R060
82k
C010
.1
12V
R009
330
R006
1k
R002
100k
Q001
*1
Q002
*1
Q003
*2
Q004
*1
Q005
*1
R005
1k
R008
4.7k
R004
3.3k
R003
39k
R001
100
C001
33/10
C006
47/16
C002
220p
CH
C003
22p
CH
C004
.1
C005
.1
R011
3.3k
R012
2.7k
R010
1k
R007
1k
R751
1k
X751
GAX0534-001
D752
D753
D752,D753
MA3062/M/-X
IC751
SAB-C161PI-W
MICON
C753
.1
CC
C754
.1
CC
C755
.1
CC
R760
10k
R759
10k
R758
4.7k
R761
8.2k
R762
8.2k
R763
8.2k
R766
8.2k
MEMORY
IC753
AT24C16N-10SC-X
C756
.1
CC
R756
10k
R757
10k
IC752
MX23C4000PC10M1
ROM
C757
.1
CC
D754
x
R752
10k
R753
10k
R754
10k
R755
10k
Q751
2SC2712/YG/-X
Q752
2SC2712/YG/-X
SW
R764
8.2k
R765
8.2k
D751
MA111-X
C751
47/16
C752
.1 CC
C758
.01
NOTE
*1: 2SC2412K/QR/-X
*2: 2SA1037/QR/-X
x :NON-MOUNT(OPEN)
CN007
QGB3501K1-40
GND
S/N_CFN/OTH
AA_50/60
AA_SDA
AA_SCL
AA_FRQ
HP50
V50
Y1
12V
12V
VL/OTHER
LR/CENTER
IICEN
SDAM
SCLM
YUV_A/D
CV_A/D
SCL3
SDA3
SDA4
SCL4
P&P_TEXT/OTHER
TV/TEXT
L_VL/OT1
L/OTH1
POWER BASS
3D ON/OFF
ECO ON/OFF
TIMER ON/OFF
GND
GND
N.C
SUB BUSY
MTX RST
SUB RST
5V
5V
GND
GND
MAIN PWB

100Hz PWB CIRCUIT DIAGRAM


100Hz PWB
SMD0Z005A-U2 [AV-32WFX1EUG/EUS]
SMD0Z006A-U2 [AV-28WFX1EUG/EUS]
X101 QAX0549-001Z 24.5MHz
D102 MA3068/W/-X
IC101
SDA9206
A/D CONVERTOR
&
CLOCK SYNC GENERATOR
IC201
SDA9400
SCAN RATE CONVERTER
27MHz X201 QAX0359-001Z
Q151 *1 V. REF GENERATOR
Q153 *2 RESET_SW
Q154 *1 RESET_SW
Q155 *2 RESET_SW
D101 MA3068/W/-X
IC601 SN74LV04ANS-X INV. BUFFER
IC602 TC74AC00F-X CLOCK GATE PULSE GENERATER
IC603 RESET MN1382/Q/-X
Q601 *1 INV.
D404, 405 MA3068/M/-X
Q141 BUFFER *2
Q142 *1 AMP
Q143 *2 AMP
Q144 *1 BUFFER
Q121 BUFFER *2
Q122 *1 AMP
Q123 *2 AMP
Q124 *1 BUFFER
Q101 BUFFER *2
Q102 *1 AMP
Q103 *2 AMP
Q104 *1 BUFFER
D001 MA152WK-X
D106 MA3068/M/-X
Q106 BUFFER
Q108-Q111 V. REF GENERATOR
IC102 TC4W66F-X CLAMP DC OFFSET SW
Q107 CLAMP_SW
CN018 QQB3501K1-20
CN009 QQB3501K1-40
MAIN PWB
Q404 BUFFER *2
Q405 BUFFER *2
Q401 BUFFER

-32WFX1EUG
/-32WFX1EUS
/-28WFX1EUG
/-28WFX1EUS

AV-32WFX1EUG
AV-32WFX1EUS
AV-28WFX1EUG
AV-28WFX1EUS

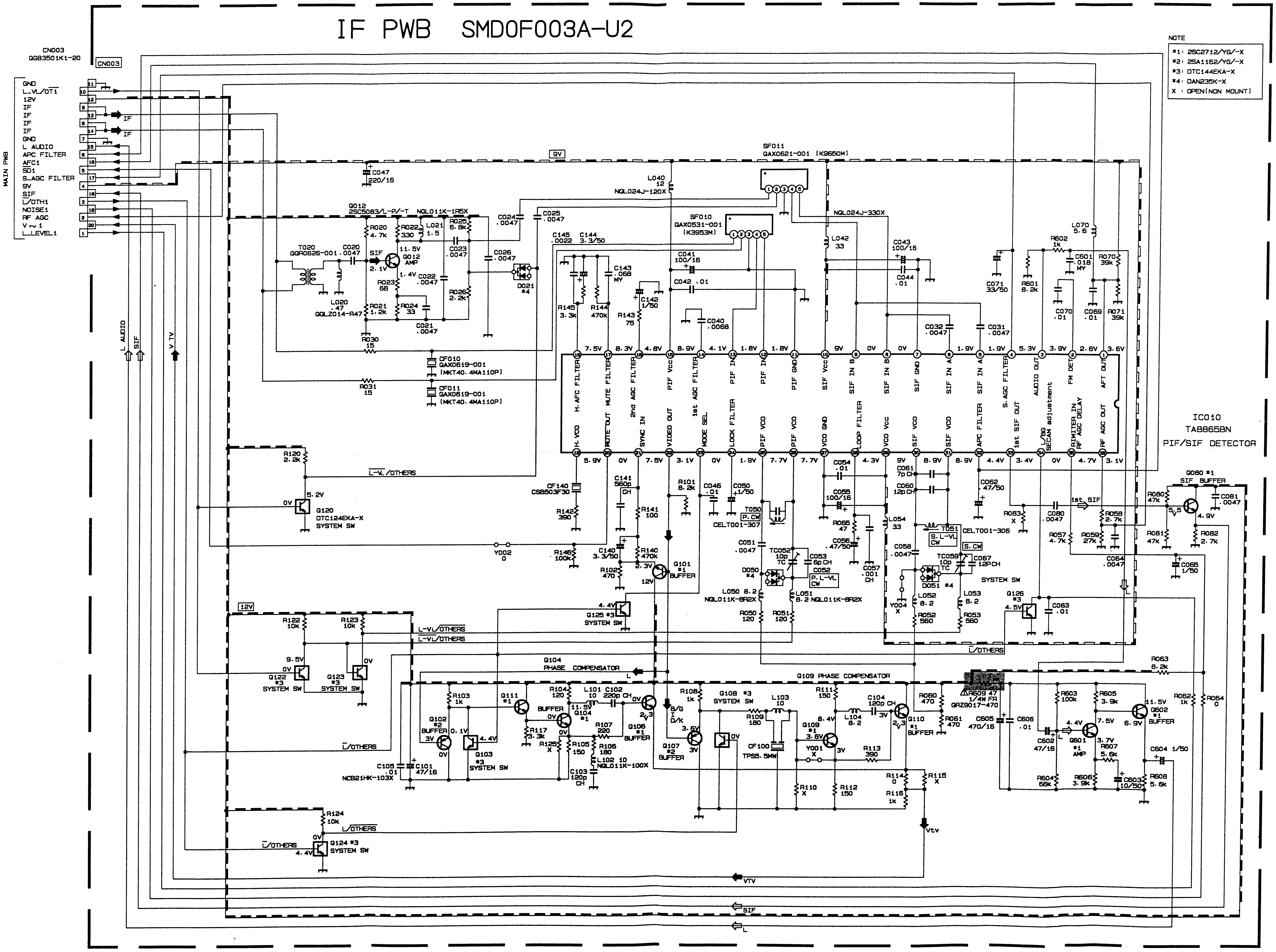

UG/EUS]
UG/EUS]
IVERTER
IC301
JCC5043
DIGITAL ENHANCE
IC401
DDP3310B/E4-W
D/A CONVERTOR
&
V/C DEF PROCESSOR
V. REF GENERATOR
BLANKING_SW
EHT CORRECT
IC701
NJM4556AM-XE
IC702
NJM4556AM-XE
CN009
QGB3501K1-40
D. GND
DEF. GND
100GND
50GND

NOTE
*1 : 2SC2712/YG/-X
*2 : 2SA1162/YG/-X
*3 : MA111-X
EFA : CE42482-103Y
EFB : CE42482-470Y
EFC : CE42126-220Y
EFG : CE42126-101Y
X : OPEN

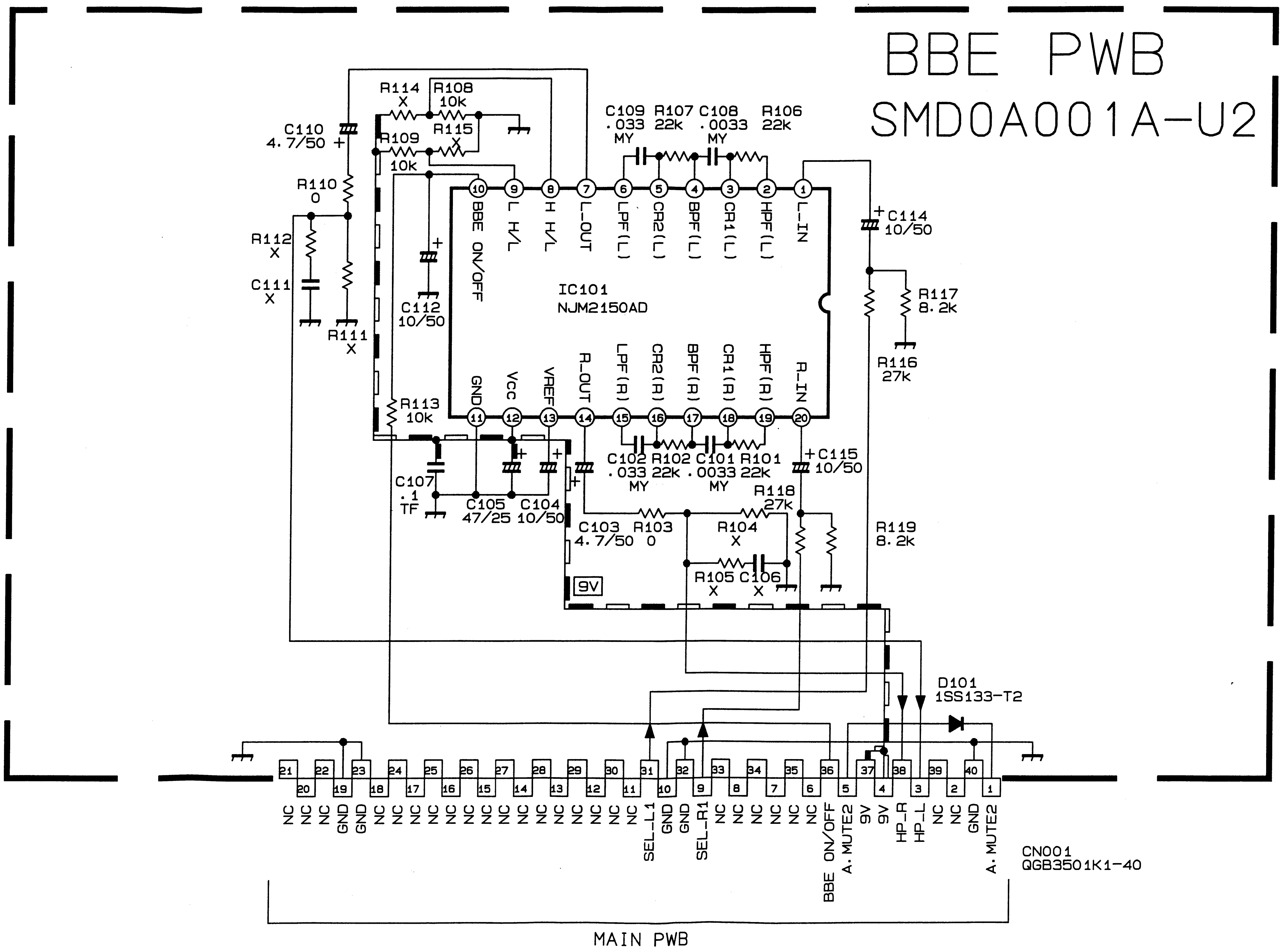
*DEFFERENCE LIST (*PARTS)

	SMD-0Z005A-U2	SMD-0Z006A-U2
R716	27k	15k
R720	22K	33k

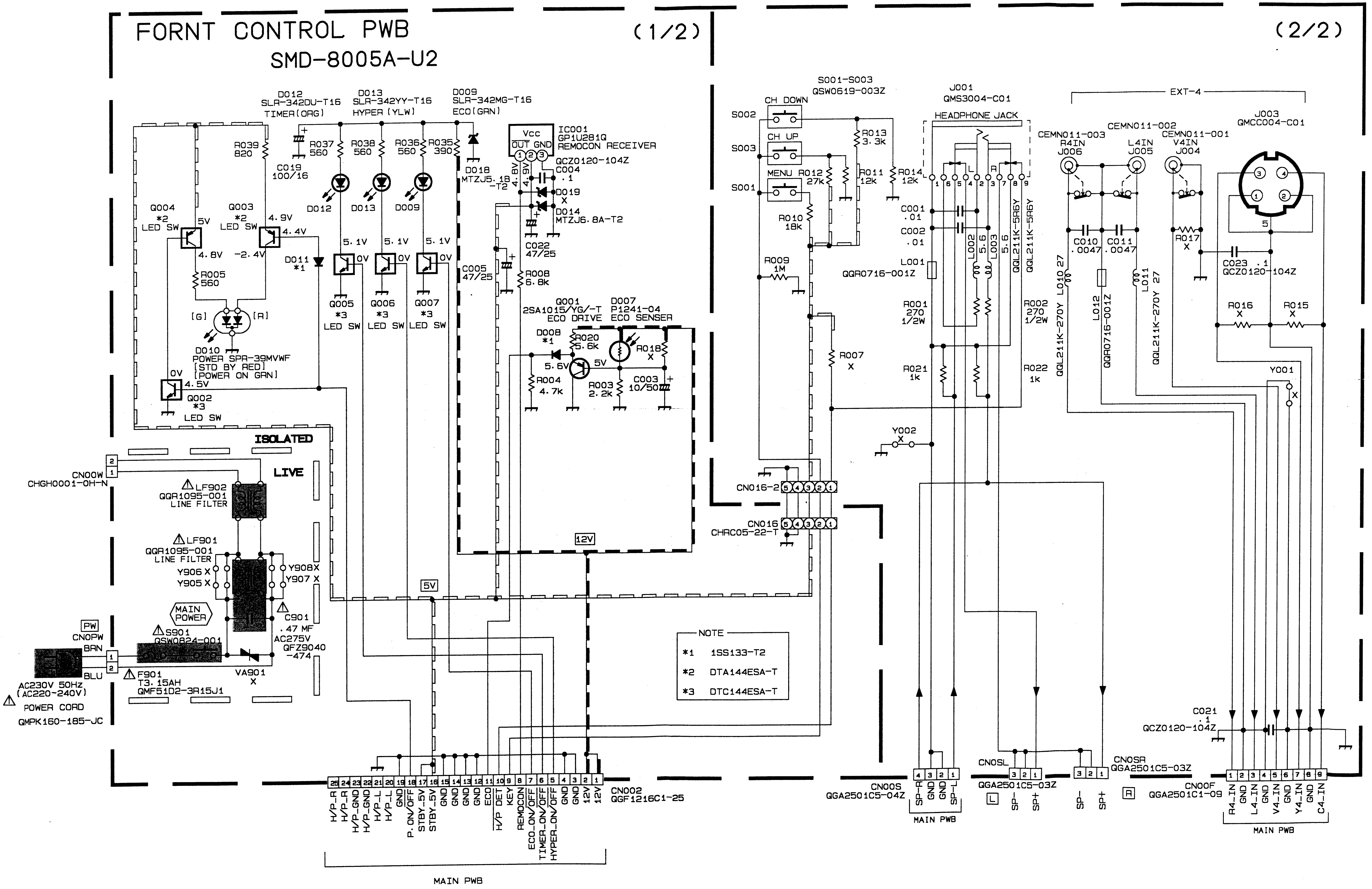
IF PWB CIRCUIT DIAGRAM


IF PWB SMD0F003A-U2
NOTE
*1: 2SC2712/YG/-X
*2: 2SA1162/YG/-X
*3: DTC144EKA-X
*4: DAN235K-X
X : OPEN(NON MOUNT)
CN003
QGB3501K1-20
MAIN PWB
GND
L-VL/OT1
12V
IF
IF
IF
IF
GND
L AUDIO
APC FILTER
AFC1
SD1
S-AGC FILTER
9V
SIF
L/OTH1
NOISE1
RF AGC
V TV 1
L-LEVEL1
9V
12V
SF011
QAX0621-001 (K9650M)
SF010
QAX0531-001 (K3953M)
T020
QQR0626-001
Q012
2SC5083/L-P/-T
AMP
D021 *4
CF010
QAX0619-001
(MKT40.4MA110P)
CF011
QAX0619-001
(MKT40.4MA110P)
H.AFC FILTER
MUTE FILTER
2nd AGC FILTER
PIF Vcc
1st AGC FILTER
PIF IN
PIF IN
PIF GND
SIF Vcc
SIF IN B
SIF IN B
SIF GND
SIF IN A
SIF IN A
S.AGC FILTER
AUDIO OUT
FM DET
AFT OUT
H.VCO
MUTE OUT
SYNC IN
VIDEO OUT
MODE SEL
LOCK FILTER
PIF VCO
PIF VCO
VCO GND
LOOP FILTER
VCO Vcc
SIF VCO
SIF VCO
APC FILTER
1st SIF OUT
L/BG SECAM adjustment
RIMITER IN RF AGC DELAY
RF AGC OUT
IC010
TA8865BN
PIF/SIF DETECTOR
Q080 *1
SIF BUFFER
CF140
CSB503F30
Q101 *1 BUFFER
T050 P.CW
CELT001-307
T051 S.L-VL CW
S.CW
CELT001-306
TC052
TC059
D050 *4
D051 *4
P.L-VL CW
L050 8.2 NQL011K-8R2X
L051 8.2 NQL011K-8R2X
Y004 X
Q126 *3 SYSTEM SW
Q120 DTC124EKA-X SYSTEM SW
Y002 0
Q125 *3 SYSTEM SW
L-VL/OTHERS
L/OTHERS
Q122 *3 SYSTEM SW
Q123 *3 SYSTEM SW
Q104 PHASE COMPENSATOR
Q109 PHASE COMPENSATOR
Q102 *2 BUFFER
Q103 *3 SYSTEM SW
Q111 *1 BUFFER
Q104 *1
Q106 *1 BUFFER
Q107 *2 BUFFER
Q108 *3 SYSTEM SW
B/G I D/K
CF100 TPS5.5MW
Y001 X
Q110 *1 BUFFER
R609 47 1/4W FR QRZ9017-470
Q601 *1 AMP
Q602 *1 BUFFER
Q124 *3 SYSTEM SW
L AUDIO
SIF
V TV
Vtv
VTV
SIF
L

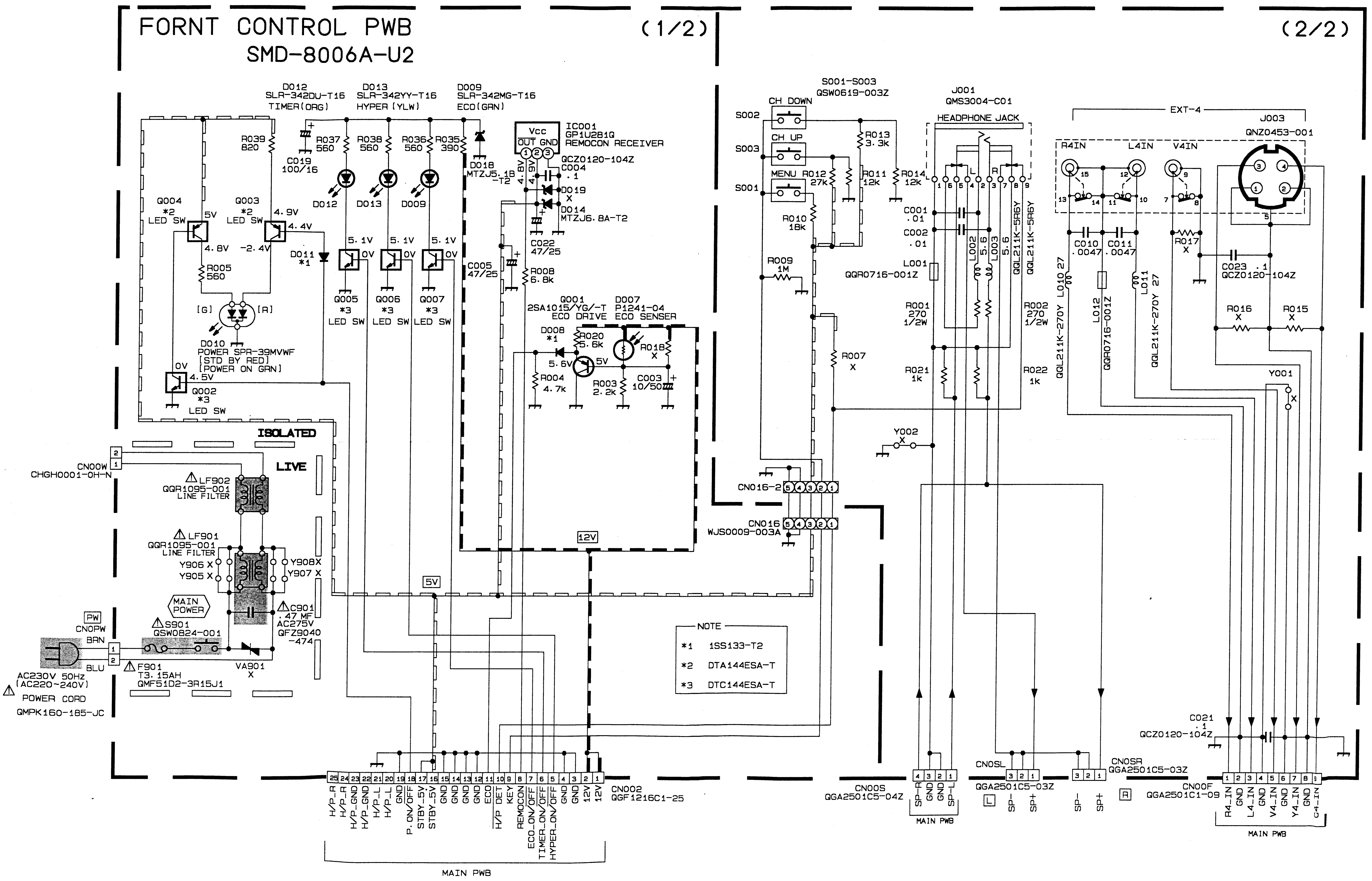
BBE PWB CIRCUIT DIAGRAM


BBE PWB
SMD0A001A-U2
R114 X
R108 10k
R109 10k
R115 X
C110 4.7/50
R110 0
R112 X
C111 X
R111 X
C112 10/50
C109 .033 MY
R107 22k
C108 .0033 MY
R106 22k
BBE ON/OFF
L H/L
H H/L
L_OUT
LPF(L)
CR2(L)
BPF(L)
CR1(L)
HPF(L)
L_IN
IC101
NJM2150AD
GND
VCC
VREF
R_OUT
LPF(R)
CR2(R)
BPF(R)
CR1(R)
HPF(R)
R_IN
C114 10/50
R117 8.2k
R116 27k
R113 10k
C107 .1 TF
C105 47/25
C104 10/50
C102 .033 MY
R102 22k
C101 .0033 MY
R101 22k
C115 10/50
R118 27k
C103 4.7/50
R103 0
R104 X
R119 8.2k
R105 X
C106 X
9V
D101 1SS133-T2
NC
NC
NC
GND
GND
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
NC
SEL_L1
GND
GND
SEL_R1
NC
NC
NC
NC
NC
BBE ON/OFF
A.MUTE2
9V
9V
HP_R
HP_L
NC
NC
GND
A.MUTE2
CN001
QGB3501K1-40
MAIN PWB

FRONT CONTROL PWB CIRCUIT DIAGRAM [AV-32WFX1EUG / EUS]

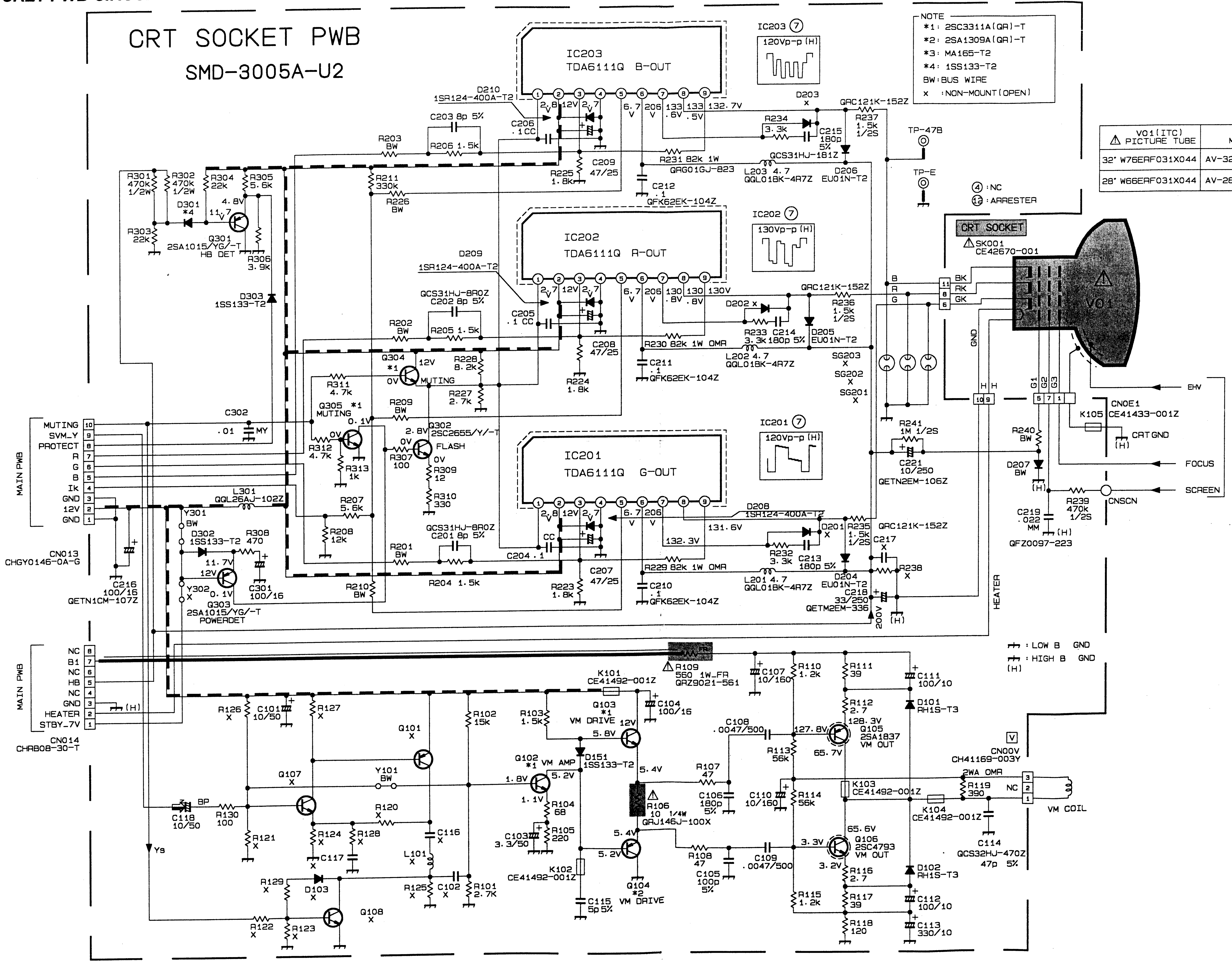

FORNT CONTROL PWB
SMD-8005A-U2
(1/2)
(2/2)
D012 SLR-342DU-T16 TIMER(ORG)
D013 SLR-342YY-T16 HYPER(YLW)
D009 SLR-342MG-T16 ECO(GRN)
IC001 GP1U281Q REMOCON RECEIVER
Vcc OUT GND
QCZ0120-104Z
C004 .1
D019 X
D014 MTZJ6.8A-T2
C022 47/25
D018 MTZJ5.1B-T2
R039 820
R037 560
R038 560
R036 560
R035 390
C019 100/16
Q004 *2 LED SW
Q003 *2 LED SW
5V 4.9V 4.4V 4.8V -2.4V
R005 560
D011 *1
Q005 *3 LED SW
Q006 *3 LED SW
Q007 *3 LED SW
5.1V 0V
D010 POWER SPR-39MVWF [STD BY RED] [POWER ON GRN]
[G] [R]
Q002 *3 LED SW
0V 4.5V
C005 47/25
R008 6.8k
Q001 2SA1015/YG/-T ECO DRIVE
D007 P1241-04 ECO SENSER
D008 *1
R020 5.6k
R018 X
5.6V 5V
R004 4.7k
R003 2.2k
C003 10/50
12V
5V
ISOLATED
LIVE
CN00W CHGH0001-0H-N
LF902 QQR1095-001 LINE FILTER
LF901 QQR1095-001 LINE FILTER
Y906 X Y905 X Y908 X Y907 X
MAIN POWER
S901 QSW0824-001
C901 .47 MF AC275V QFZ9040-474
PW CN0PW
BRN BLU
F901 T3.15AH QMF51D2-3R15J1
VA901 X
AC230V 50Hz (AC220-240V)
POWER CORD QMPK160-185-JC
NOTE
*1 1SS133-T2
*2 DTA144ESA-T
*3 DTC144ESA-T
CN002 QGF1216C1-25
H/P_R H/P_R H/P_GND H/P_GND H/P_L H/P_L GND P.ON/OFF STBY_5V STBY_5V GND GND GND GND ECO H/P DET KEY REMOCON ECO_ON/OFF TIMER_ON/OFF HYPER_ON/OFF GND GND 12V 12V
MAIN PWB
S001-S003 QSW0619-003Z
S002 CH DOWN
S003 CH UP
S001 MENU
R012 27k
R013 3.3k
R011 12k
R014 12k
R010 18k
R009 1M
R007 X
CN016-2
CN016 CHRC05-22-T
Y002 X
J001 QMS3004-C01 HEADPHONE JACK
L R
C001 .01
C002 .01
L001 QQR0716-001Z
L002 5.6 L003 5.6
QQL211K-5R6Y
R001 270 1/2W
R002 270 1/2W
R021 1k
R022 1k
CN00S QGA2501C5-04Z
SP-R GND GND SP-L
MAIN PWB
CN0SL QGA2501C5-03Z
L SP- SP+
CN0SR QGA2501C5-03Z
R SP- SP+
EXT-4
CEMN011-003 R4IN J006
CEMN011-002 L4IN J005
CEMN011-001 V4IN J004
J003 QMCC004-C01
C010 .0047
C011 .0047
R017 X
C023 .1 QCZ0120-104Z
L010 27 QQL211K-270Y
L012 QQR0716-001Z
L011 27 QQL211K-270Y
R016 X
R015 X
Y001 X
C021 .1 QCZ0120-104Z
CN00F QGA2501C1-09
R4-IN GND L4-IN GND V4-IN GND Y4-IN GND C4-IN
MAIN PWB

FRONT CONTROL PWB CIRCUIT DIAGRAM [AV-28WFX1EUG / EUS]


FORNT CONTROL PWB
SMD-8006A-U2
(1/2)
(2/2)
D012
SLR-342DU-T16
TIMER(ORG)
D013
SLR-342YY-T16
HYPER(YLW)
D009
SLR-342MG-T16
ECO(GRN)
R039
820
C019
100/16
R037
560
R038
560
R036
560
R035
390
D018
MTZJ5.1B
-T2
Vcc
OUT GND
IC001
GP1U281Q
REMOCON RECEIVER
QCZ0120-104Z
C004
.1
D019
X
D014
MTZJ6.8A-T2
C022
47/25
Q004
*2
LED SW
Q003
*2
LED SW
5V
4.9V
4.4V
4.8V
-2.4V
D011
*1
D012
D013
D009
5.1V
0V
Q005
*3
LED SW
Q006
*3
LED SW
Q007
*3
LED SW
R005
560
[G]
[R]
D010
POWER SPR-39MVWF
[STD BY RED]
[POWER ON GRN]
0V
4.5V
Q002
*3
LED SW
C005
47/25
R008
6.8k
Q001
2SA1015/YG/-T
ECO DRIVE
D007
P1241-04
ECO SENSER
D008
*1
R020
5.6k
R018
X
5.6V
5V
R004
4.7k
R003
2.2k
C003
10/50
ISOLATED
LIVE
CN00W
CHGH0001-0H-N
LF902
QQR1095-001
LINE FILTER
LF901
QQR1095-001
LINE FILTER
Y906 X
Y905 X
Y908X
Y907 X
MAIN
POWER
C901
.47 MF
AC275V
QFZ9040
-474
PW
CNOPW
BRN
BLU
S901
QSW0824-001
AC230V 50Hz
(AC220~240V)
POWER CORD
QMPK160-185-JC
F901
T3.15AH
QMF51D2-3R15J1
VA901
X
5V
12V
S001-S003
QSW0619-003Z
CH DOWN
S002
CH UP
S003
MENU
S001
R013
3.3k
R012
27k
R011
12k
R014
12k
R010
18k
R009
1M
R007
X
J001
QMS3004-C01
HEADPHONE JACK
L
R
C001
.01
C002
.01
L001
QQR0716-001Z
L002
5.6
L003
5.6
QQL211K-5R6Y
QQL211K-5R6Y
R001
270
1/2W
R002
270
1/2W
R021
1k
R022
1k
Y002
X
CN016-2
CN016
WJS0009-003A
EXT-4
J003
QNZ0453-001
R4IN
L4IN
V4IN
C010
.0047
C011
.0047
R017
X
C023 .1
QCZ0120-104Z
L010 27
QQL211K-270Y
L012
QQR0716-001Z
L011
QQL211K-270Y 27
R016
X
R015
X
Y001
X
C021
.1
QCZ0120-104Z
CN002
QGF1216C1-25
H/P_R
H/P_R
H/P_GND
H/P_GND
H/P_L
H/P_L
GND
P.ON/OFF
STBY_5V
STBY_5V
GND
GND
GND
GND
ECO
H/P DET
KEY
REMOCON
ECO_ON/OFF
TIMER_ON/OFF
HYPER_ON/OFF
GND
GND
12V
12V
MAIN PWB
CN00S
QGA2501C5-04Z
SP-R
GND
GND
SP-L
MAIN PWB
CN0SL
QGA2501C5-03Z
L
SP-
SP+
CN0SR
QGA2501C5-03Z
R
SP-
SP+
CN00F
QGA2501C1-09
R4_IN
GND
L4_IN
GND
V4_IN
GND
Y4_IN
GND
C4_IN
MAIN PWB

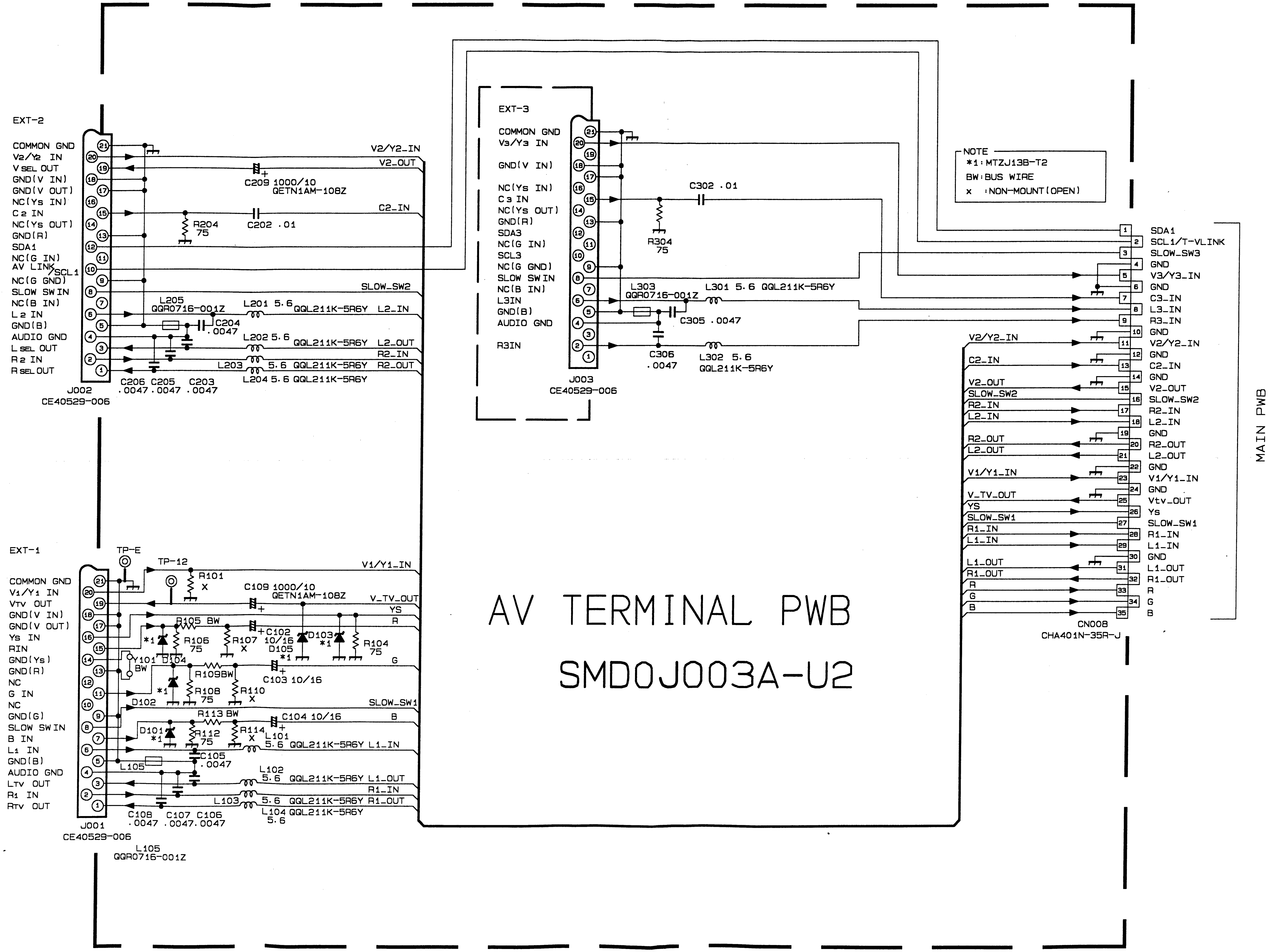
NOTE
*1 1SS133-T2
*2 DTA144ESA-T
*3 DTC144ESA-T

CRT SOCKET PWB CIRCUIT DIAGRAM

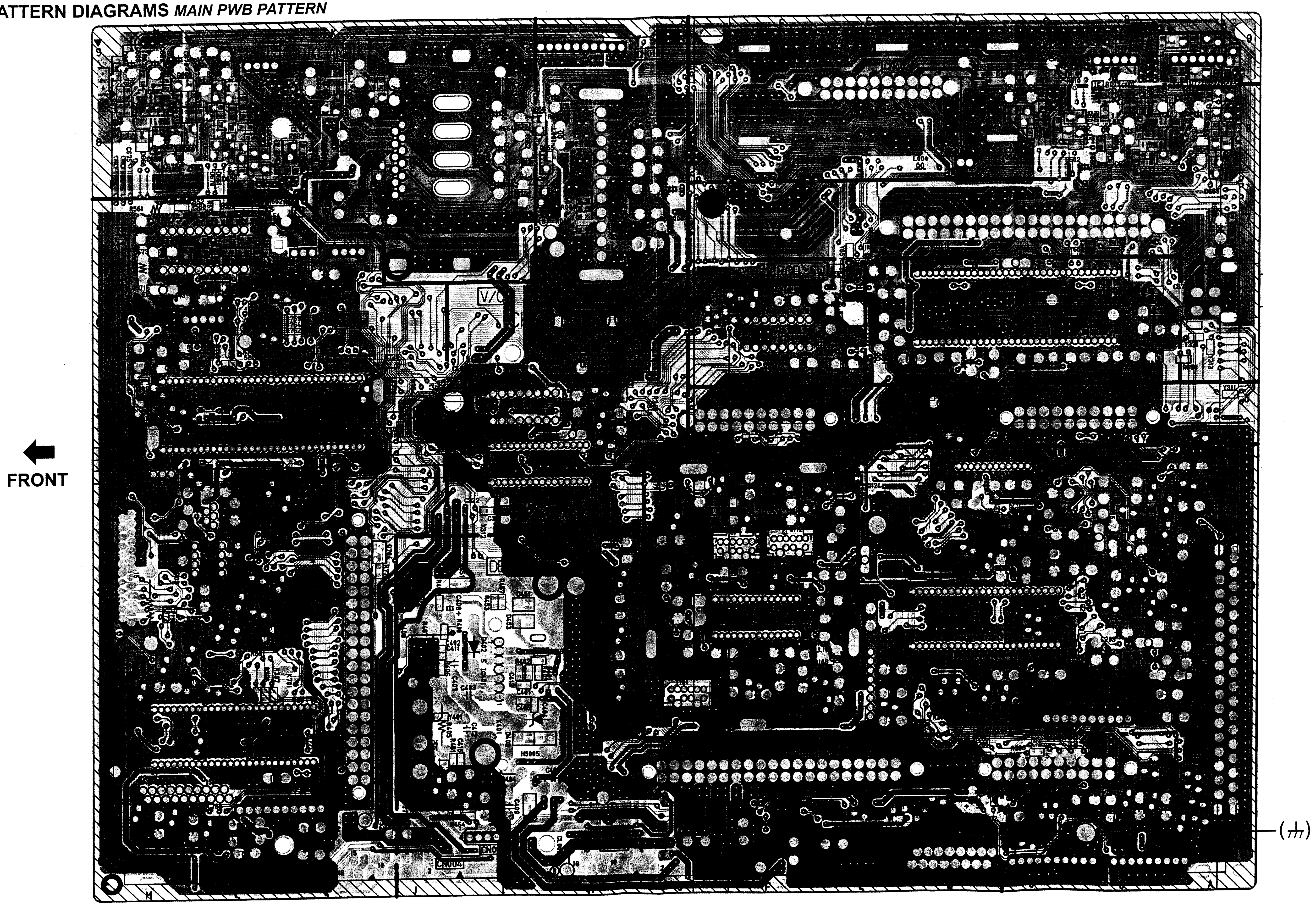

CRT SOCKET PWB
SMD-3005A-U2
IC203 TDA6111Q B-OUT
IC202 TDA6111Q R-OUT
IC201 TDA6111Q G-OUT
IC203 ⑦ 120Vp-p (H)
IC202 ⑦ 130Vp-p (H)
IC201 ⑦ 120Vp-p (H)
NOTE
*1: 2SC3311A(QR)-T
*2: 2SA1309A(QR)-T
*3: MA165-T2
*4: 1SS133-T2
BW: BUS WIRE
X : NON-MOUNT(OPEN)
④: NC
⑫: ARRESTER
CRT SOCKET
⚠SK001 CE42670-001
V01
BK
RK
GK
G1
G2
G3
H H
GND
HEATER
EHV
FOCUS
SCREEN
CNSCN
CNOE1
K105 CE41433-001Z
CRT GND
TP-47B
TP-E
MAIN PWB
MUTING
SVM_Y
PROTECT
R
G
B
IK
GND
12V
GND
CN013 CHGY0146-0A-G
NC
B1
NC
HB
NC
GND
HEATER
STBY-7V
CN014 CHRB08-30-T
Q301 2SA1015/YG/-T HB DET
Q302 2SC2655/Y/-T FLASH
Q303 2SA1015/YG/-T POWERDET
Q304 *1 MUTING
Q305 *1 MUTING
L301 QQL26AJ-102Z
C216 100/16 QETN1CM-107Z
⚠R109 560 1W FR QRZ9021-561
K101 CE41492-001Z
Q103 *1 VM DRIVE
Q102 *1 VM AMP
Q104 *2 VM DRIVE
Q105 2SA1837 VM OUT
Q106 2SC4793 VM OUT
D151 1SS133-T2
⚠R106 10 1/4W QRJ146J-100X
K102 CE41492-001Z
K103 CE41492-001Z
K104 CE41492-001Z
CN00V CH41169-003Y
VM COIL
D101 RH1S-T3
D102 RH1S-T3
C114 QCS32HJ-470Z 47p 5%
⏚ : LOW B GND
⏚ : HIGH B GND (H)

V01(ITC) ⚠ PICTURE TUBE	MODEL
32" W76ERF031X044	AV-32WFX1EUG/EUS
28" W66ERF031X044	AV-28WFX1EUG/EUS

AV TERMINAL PWB CIRCUIT DIAGRAM

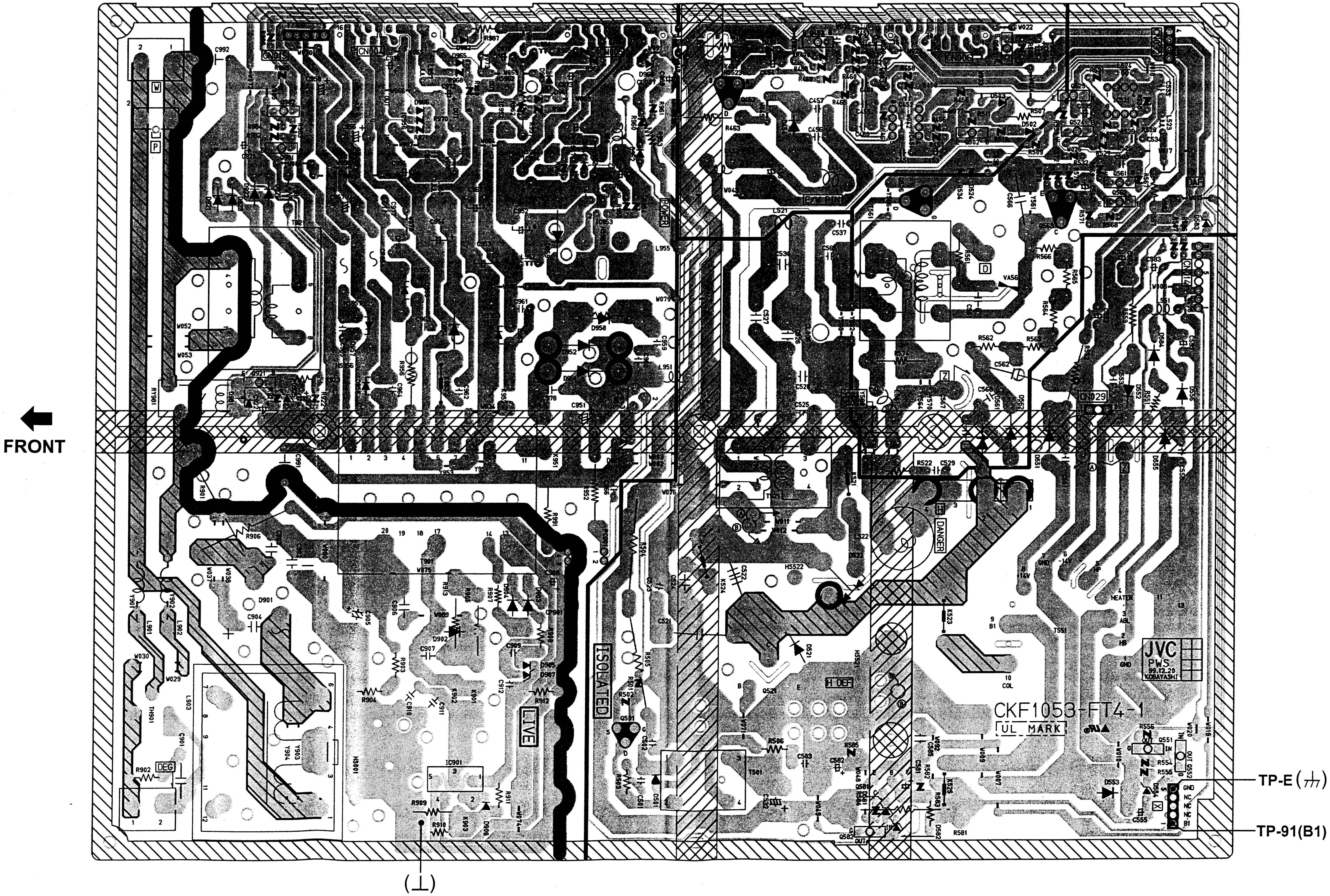

EXT-2
COMMON GND
V2/Y2 IN
V SEL OUT
GND(V IN)
GND(V OUT)
NC(Ys IN)
C2 IN
NC(Ys OUT)
GND(R)
SDA1
NC(G IN)
AV LINK/SCL1
NC(G GND)
SLOW SW IN
NC(B IN)
L2 IN
GND(B)
AUDIO GND
L SEL OUT
R2 IN
R SEL OUT
J002
CE40529-006
V2/Y2_IN
V2_OUT
C209 1000/10
QETN1AM-108Z
C2_IN
R204
75
C202 .01
SLOW_SW2
L205
QQR0716-001Z
L201 5.6
QQL211K-5R6Y L2_IN
C204
.0047
L202 5.6
QQL211K-5R6Y L2_OUT
R2_IN
L203
5.6 QQL211K-5R6Y R2_OUT
L204 5.6 QQL211K-5R6Y
C206 C205 C203
.0047 .0047 .0047
EXT-3
COMMON GND
V3/Y3 IN
GND(V IN)
NC(Ys IN)
C3 IN
NC(Ys OUT)
GND(R)
SDA3
NC(G IN)
SCL3
NC(G GND)
SLOW SW IN
NC(B IN)
L3IN
GND(B)
AUDIO GND
R3IN
J003
CE40529-006
C302 .01
R304
75
L303
QQR0716-001Z
L301 5.6 QQL211K-5R6Y
C305 .0047
C306
.0047
L302 5.6
QQL211K-5R6Y
NOTE
*1: MTZJ13B-T2
BW: BUS WIRE
x :NON-MOUNT(OPEN)
1 SDA1
2 SCL1/T-VLINK
3 SLOW_SW3
4 GND
5 V3/Y3_IN
6 GND
7 C3_IN
8 L3_IN
9 R3_IN
10 GND
11 V2/Y2_IN
12 GND
13 C2_IN
14 GND
15 V2_OUT
16 SLOW_SW2
17 R2_IN
18 L2_IN
19 GND
20 R2_OUT
21 L2_OUT
22 GND
23 V1/Y1_IN
24 GND
25 Vtv_OUT
26 Ys
27 SLOW_SW1
28 R1_IN
29 L1_IN
30 GND
31 L1_OUT
32 R1_OUT
33 R
34 G
35 B
V2/Y2_IN
C2_IN
V2_OUT
SLOW_SW2
R2_IN
L2_IN
R2_OUT
L2_OUT
V1/Y1_IN
V_TV_OUT
YS
SLOW_SW1
R1_IN
L1_IN
L1_OUT
R1_OUT
R
G
B
CN008
CHA401N-35R-J
MAIN PWB
EXT-1
COMMON GND
V1/Y1 IN
VTV OUT
GND(V IN)
GND(V OUT)
Ys IN
RIN
GND(Ys)
GND(R)
NC
G IN
NC
GND(G)
SLOW SW IN
B IN
L1 IN
GND(B)
AUDIO GND
LTV OUT
R1 IN
RTV OUT
J001
CE40529-006
TP-E
TP-12
R101
x
V1/Y1_IN
C109 1000/10
QETN1AM-108Z
V_TV_OUT
YS
R
R105 BW
C102
10/16
D103
*1
R106
75
R107
x
D105
*1
R104
75
*1
D104
Y101
BW
G
R109BW
C103 10/16
*1
R108
75
R110
x
D102
SLOW_SW1
R113 BW
C104 10/16
B
D101
*1
R112
75
R114
x
L101
5.6 QQL211K-5R6Y L1_IN
C105
.0047
L105
L102
5.6 QQL211K-5R6Y L1_OUT
R1_IN
L103
5.6 QQL211K-5R6Y R1_OUT
L104 QQL211K-5R6Y
5.6
C108 C107 C106
.0047 .0047 .0047
L105
QQR0716-001Z
AV TERMINAL PWB
SMD0J003A-U2

PATTERN DIAGRAMS *MAIN PWB PATTERN*

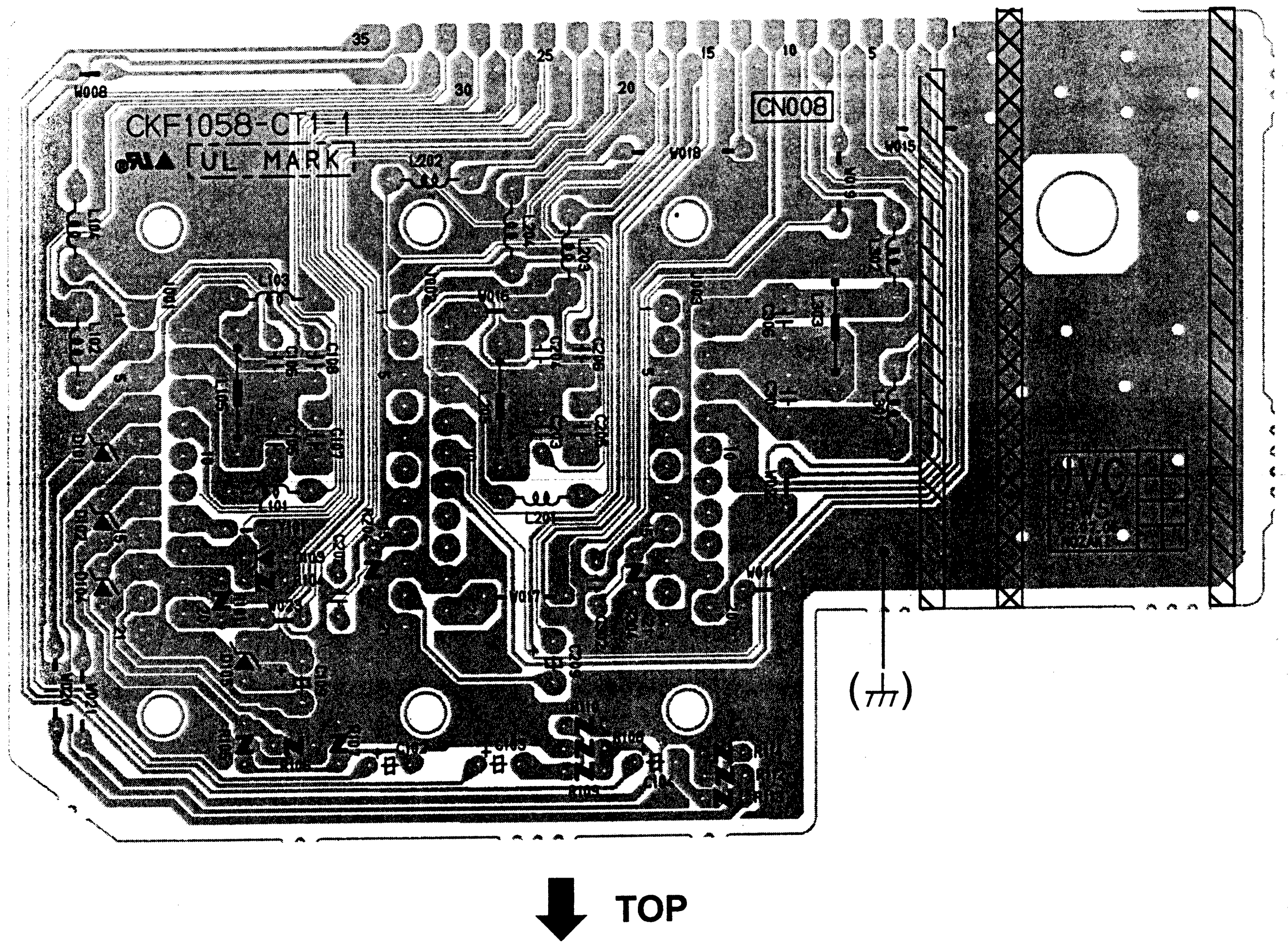


AV-32WFX1EUG
AV-32WFX1EUS
AV-28WFX1EUG
AV-28WFX1EUS

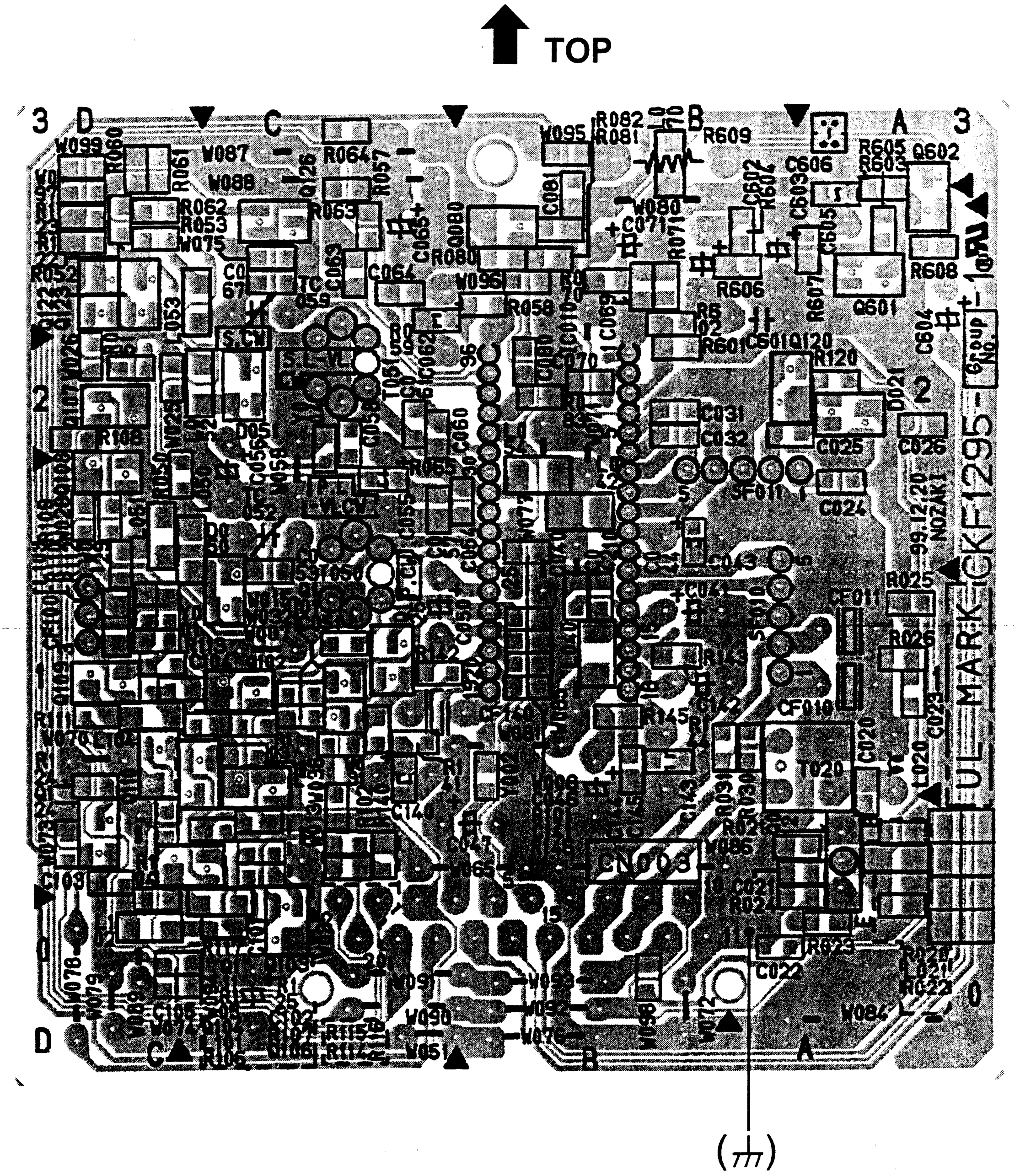
POWER & DEF PWB PATTERN


FRONT
ISOLATED
LIVE
DANGER
H DEF
DEG
JVC
PWS
CKF1053-FT4-1
UL MARK
TP-E
TP-91(B1)
(⊥)

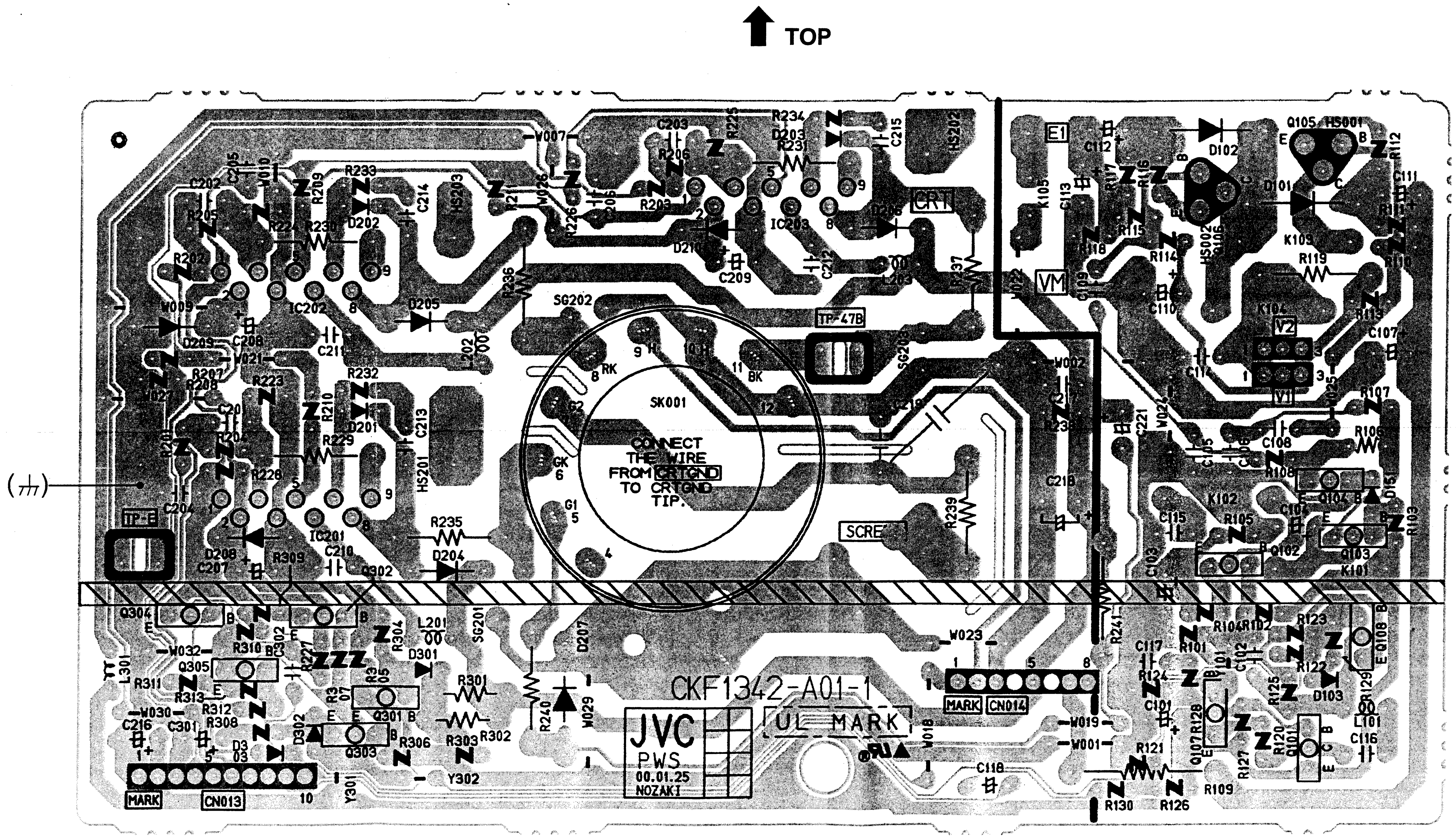
AV TERMINAL PWB PATTERN


CKF1058-CT1-1
UL MARK
CN008
1
5
10
15
20
25
30
35
(⏚)
TOP

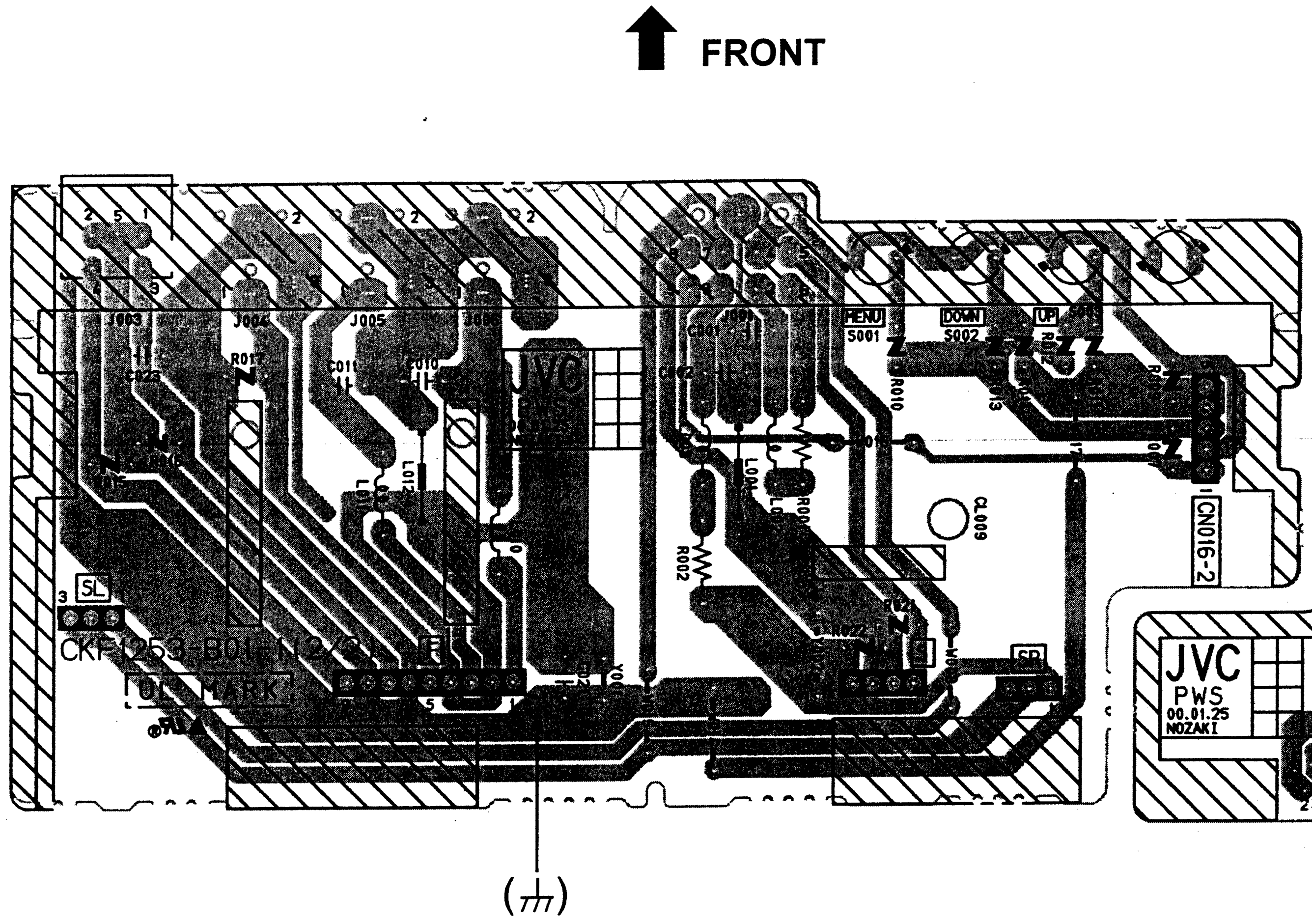
IF PWB PATTERN

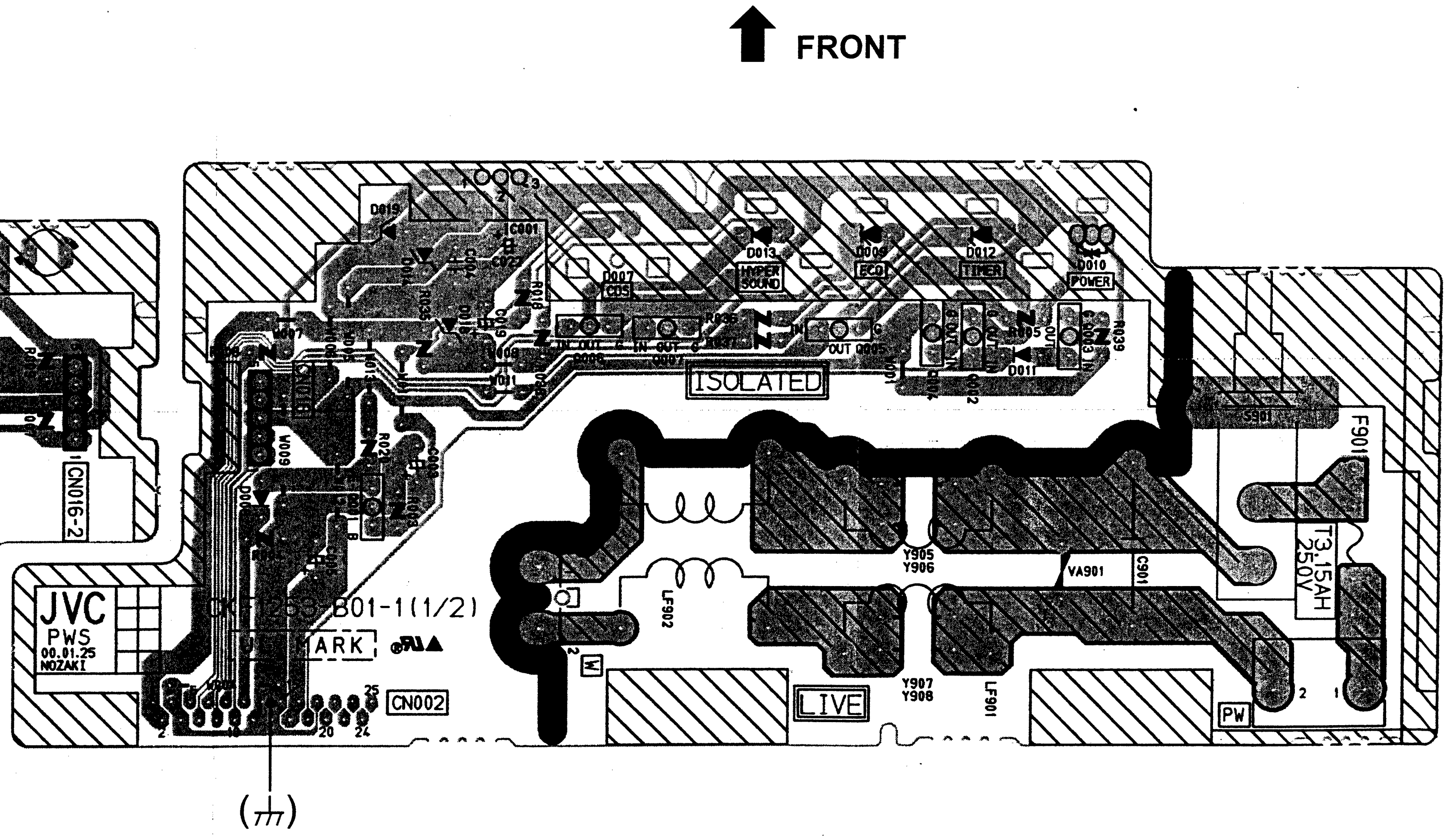

TOP
3
D
C
B
A
2
1
0
CKF1295-
UL MARK
CN003
R609
Q602
Q601
R608
C606
R605
R603
R606
R601
R120
C025
C024
C031
C032
SF011
CF011
CF010
R025
R026
T020
C020
C021
C022
R021
R023
W084
W087
W088
W099
R061
R062
R053
W075
R064
R063
R057
C064
R080
W096
R058
C071
W080
R082
R081
W095
R071
R607
R108
R111
R145
W051
W090
W091
W092
W093
R106
(⏚)

CRT SOCKET PWB PATTERN

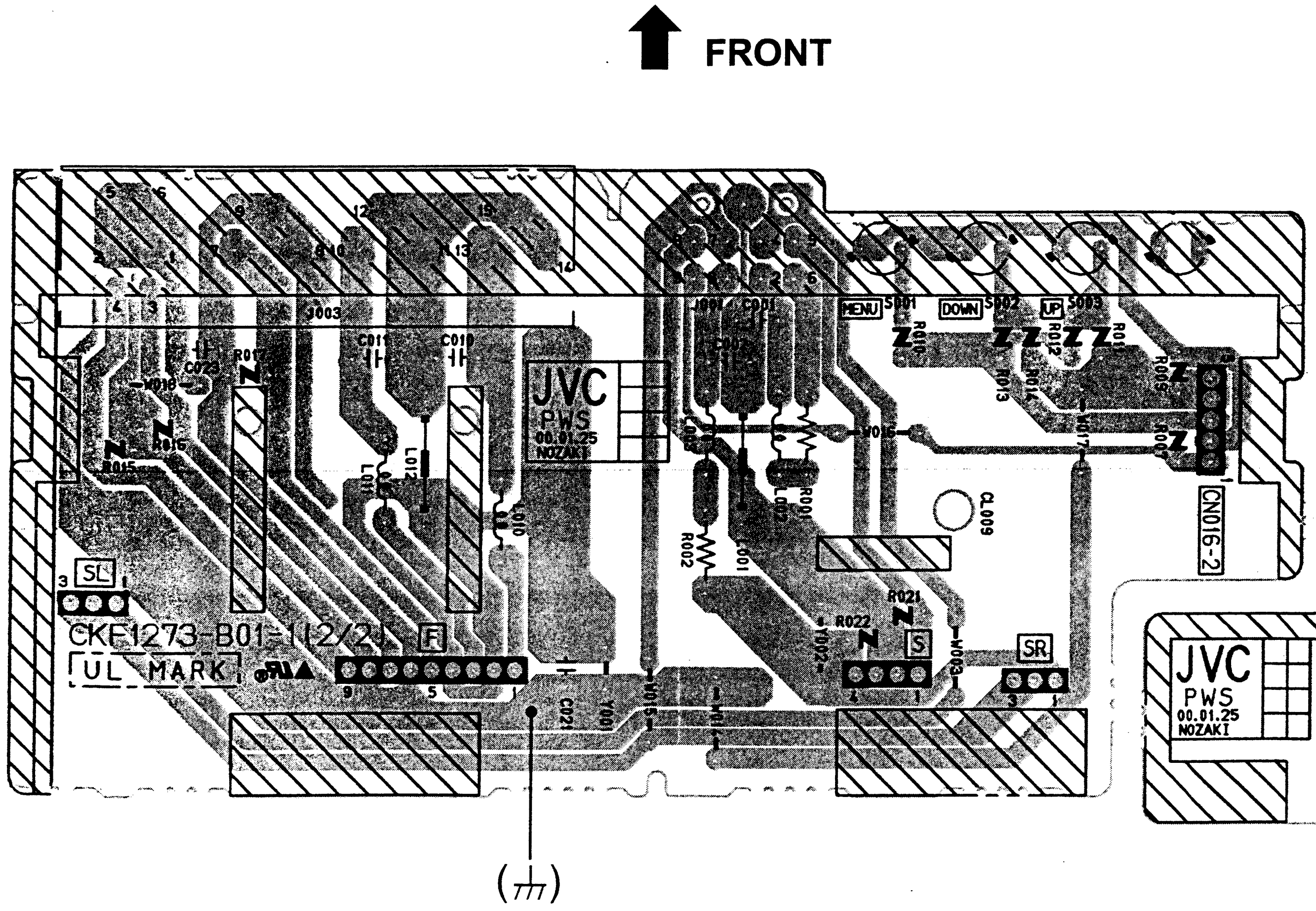

TOP
SK001
CONNECT THE WIRE FROM CRTGND TO CRTGND TIP.
CKF1342-A01-1
JVC
PWS
00.01.25
NOZAKI
UL MARK
MARK
CN013
MARK
CN014
TP-E
TP-47B
E1
CRT
VM
SCREEN
IC201
IC202
IC203
HS201
HS202
HS203
HS001
HS002
SG201
SG202
SG203
V1
V2

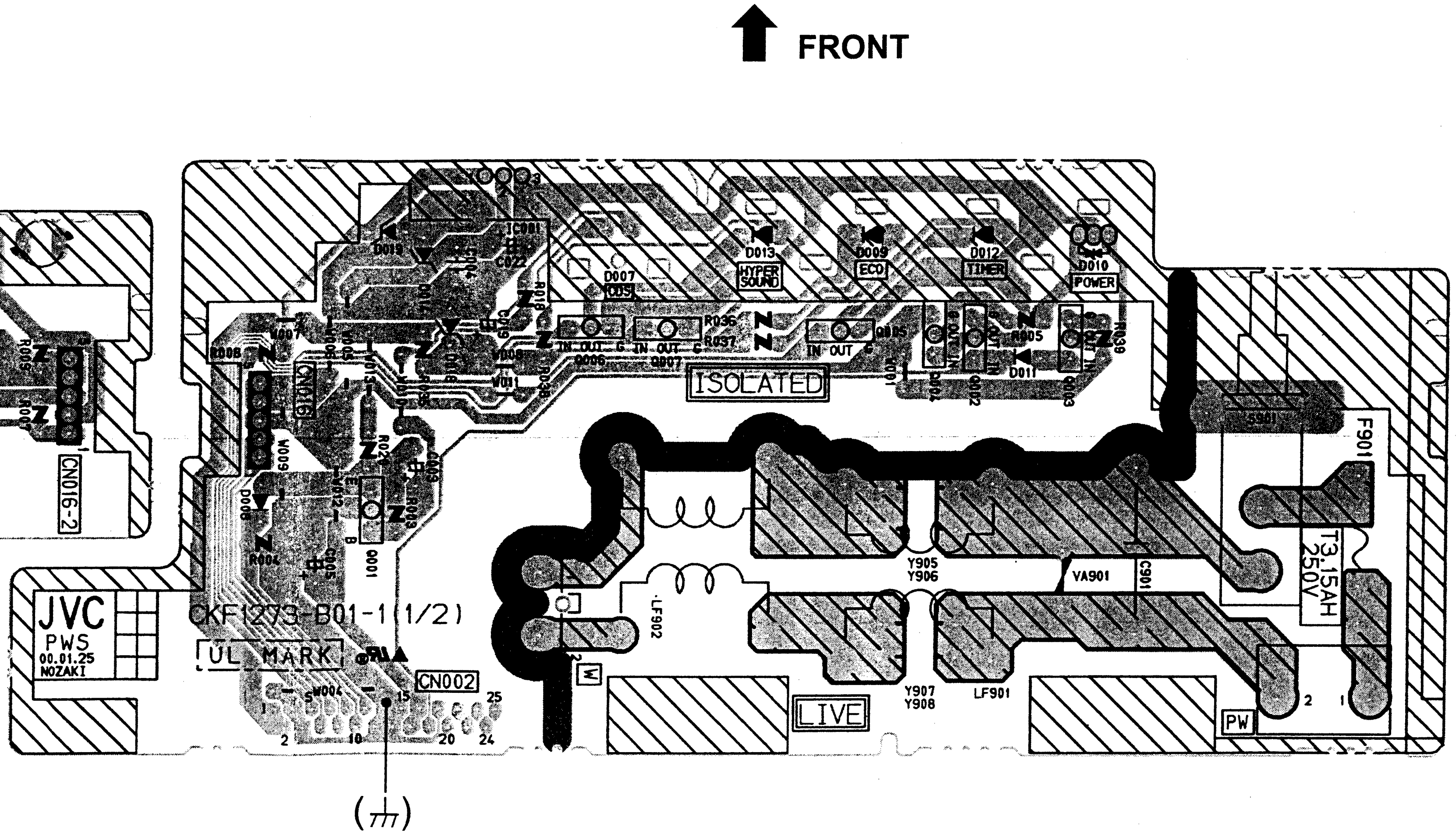
FRONT CONTROL PWB PATTERN [AV-32WFX1EUG / EUS]


FRONT
J003
J004
J005
R017
C010
L012
JVC
MENU
S001
DOWN
S002
UP
R010
R002
CL009
CN016-2
SL
CKF1253-B01-1(2/2)
MARK
SP
(⏚)


FRONT
D019
C001
D013
HYPER SOUND
D009
ECO
D012
TIMER
D010
POWER
D007
CO2
IN OUT
Q006
Q007
OUT Q005
D011
R039
ISOLATED
W009
JVC
PWS
00.01.25
NOZAKI
CKF1253-B01-1(1/2)
ARK
CN002
LF902
Y905
Y906
VA901
C901
Y907
Y908
LF901
LIVE
F901
T3.15AH
250V
PW
(⏚)

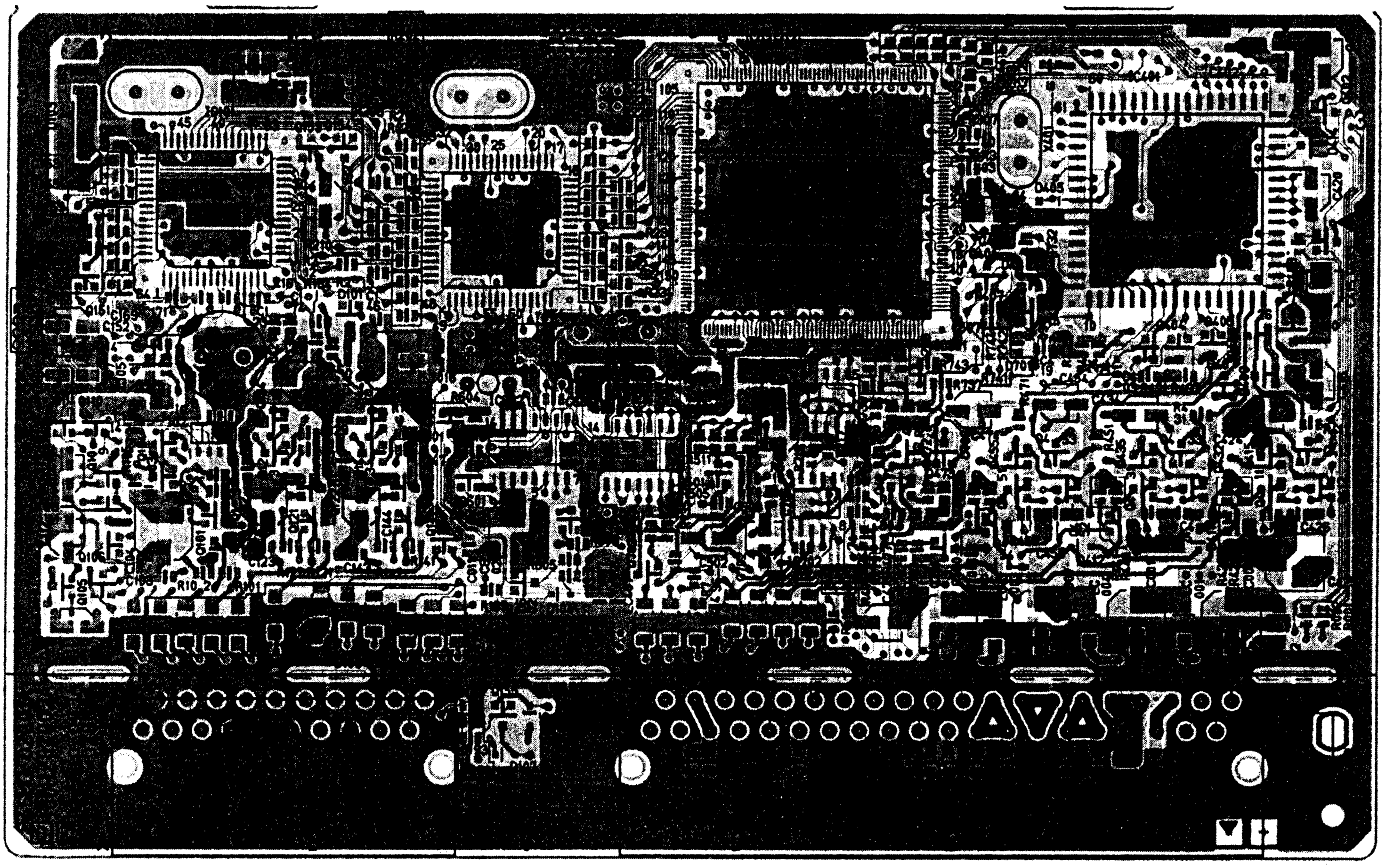
FRONT CONTROL PWB PATTERN [AV-28WFX1EUG / EUS]


FRONT
S003
C011
C010
C023
JVC
PWS
00.01.25
NOZAKI
C001
R001
R002
L011
L012
L010
MENU
DOWN
UP
S001
S002
S003
CL009
CN016-2
R021
R022
SL
SR
S
F
CKF1273-B01-1(2/2)
UL MARK
C021
W015
W016
(⏚)

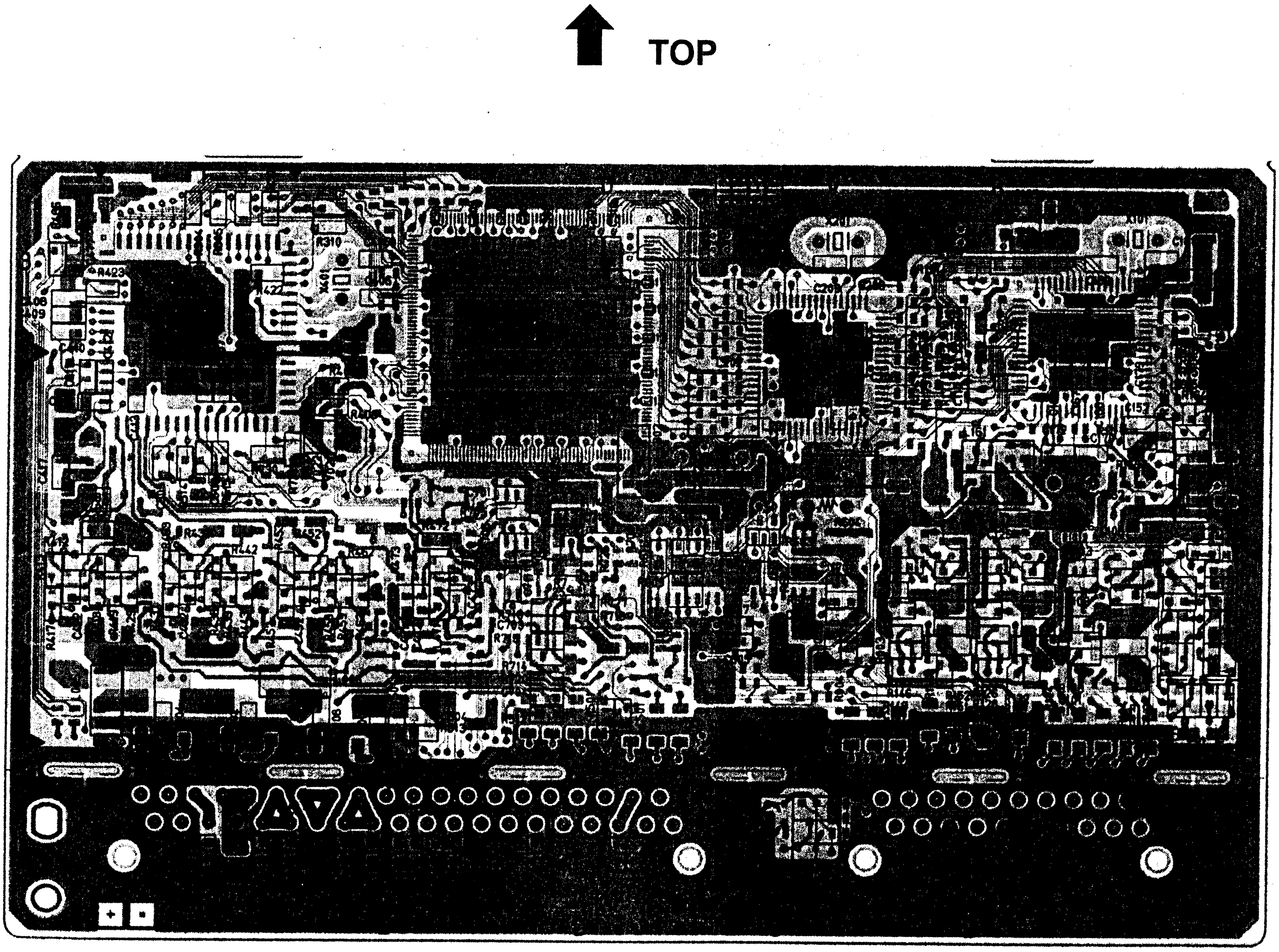

FRONT
D013
HYPER SOUND
D009
ECO
D012
TIMER
D010
POWER
D007
D005
D011
D008
IC001
C022
R036
R037
ISOLATED
Q006
Q007
IN OUT
S901
F901
T3.15AH
250V
Y905
Y906
VA901
C901
Y907
Y908
LF901
LF902
LIVE
PW
CN016
Q001
R004
JVC
PWS
00.01.25
NOZAKI
CKF1273-B01-1(1/2)
UL MARK
CN002
W004
1
2
5
10
15
20
24
25
(⏚)

100Hz PWB PATTERN (PARTS SIDE)

TOP

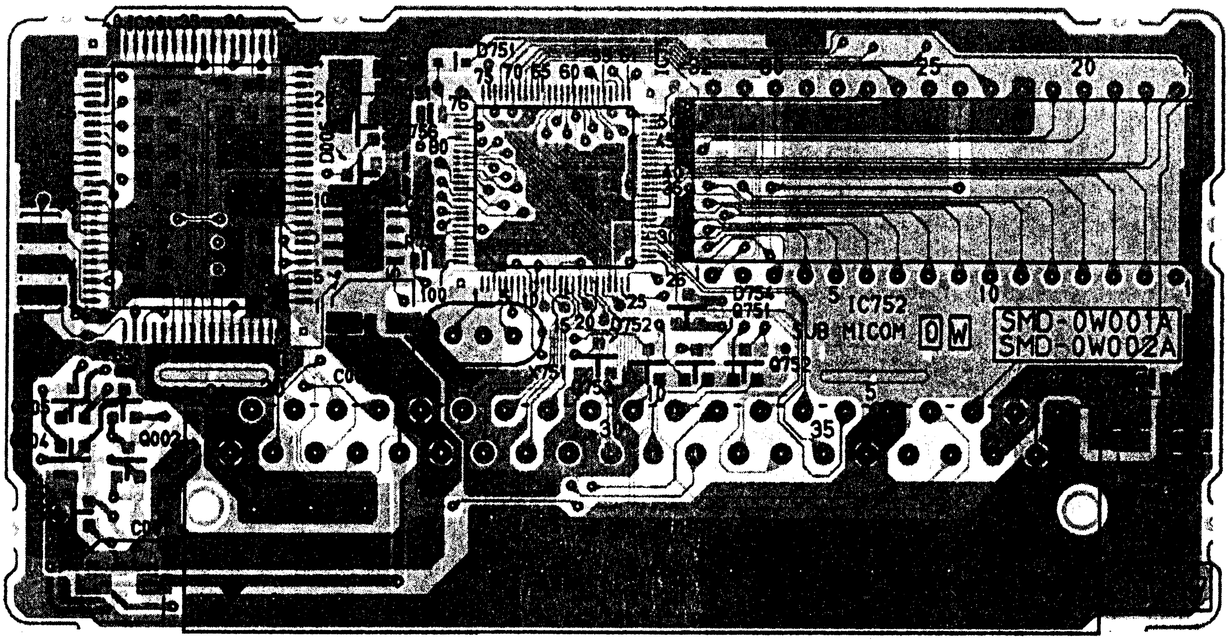


100Hz PWB PATTERN (SOLDER SIDE)



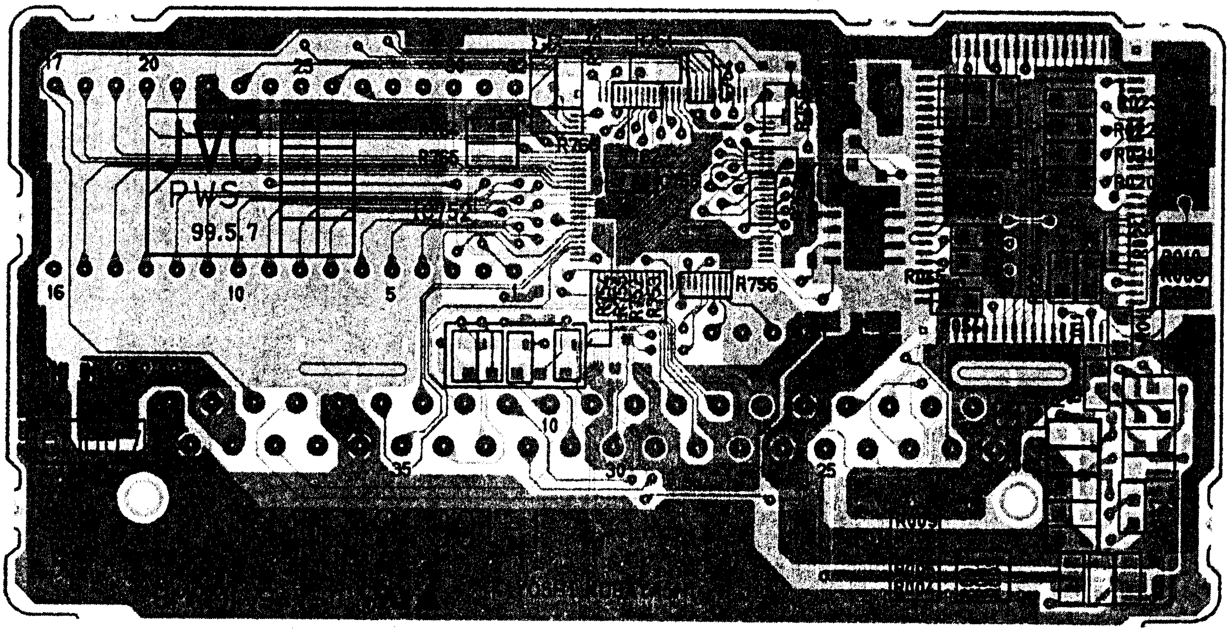
SUB MICON & AUTO PANORAMA PWB PATTERN (PARTS SIDE)

TOP

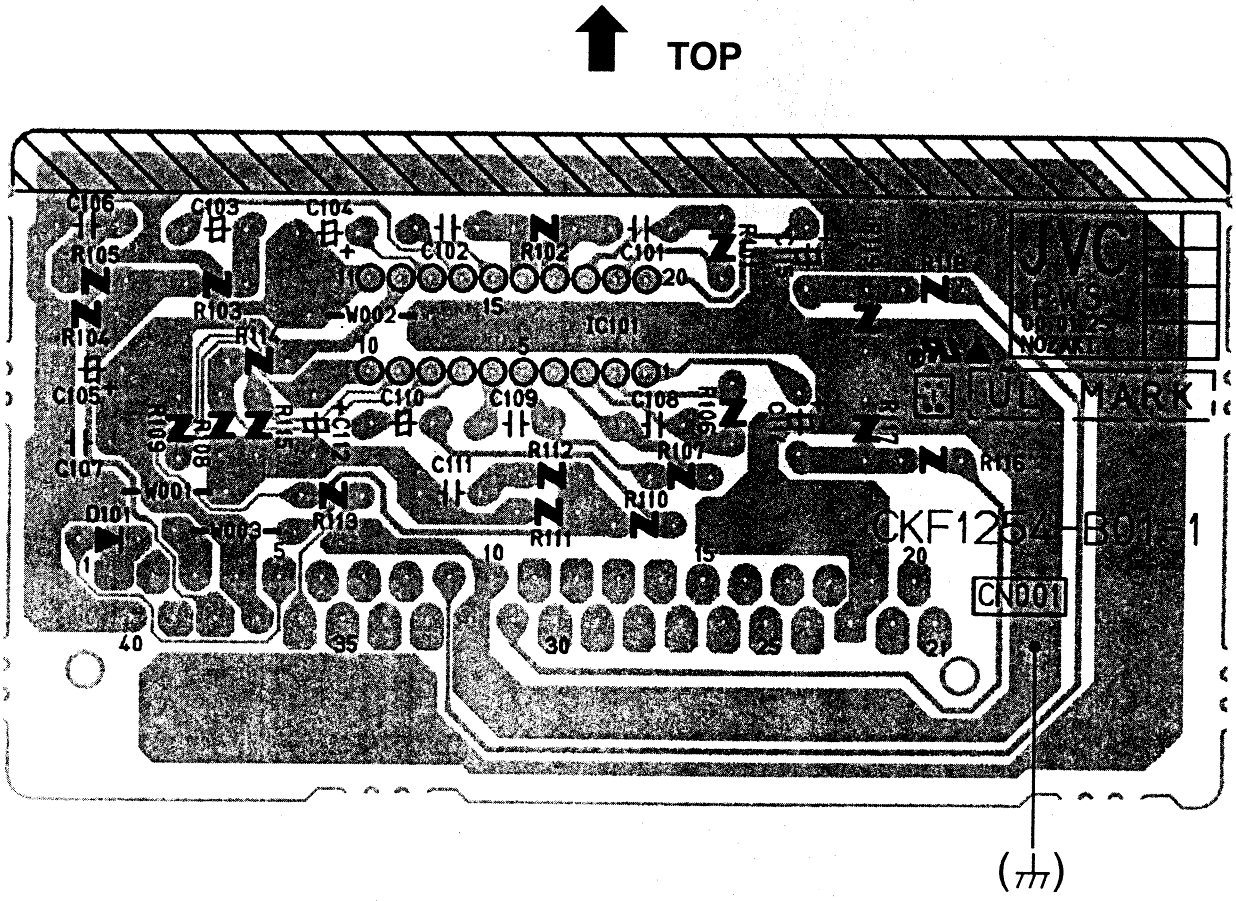

D751
75
70
65
60
55
50
20
25
76
80
D756
100
26
D754
Q751
IC752
SUB MICOM
0
W
SMD-0W001A
SMD-0W002A
Q752
35
5
10
Q002
D005

SUB MICON & AUTO PANORAMA PWB PATTERN (SOLDER SIDE)

TOP


17
20
25
JVC
PWS
99.5.7
R764
R756
16
10
5
35
10
30
25

BBE PWB PATTERN


TOP
C106
C103
C104
C102
R102
C101
R105
R103
R104
R114
W002
IC101
C105
C110
C109
C108
R109
R108
R115
C112
R106
C107
R107
R112
C111
W001
D101
W003
R113
R110
R111
R116
JVC
PWS
UL MARK
CKF1254-B01-1
CN001
1
5
10
15
20
40
35
30
25
21